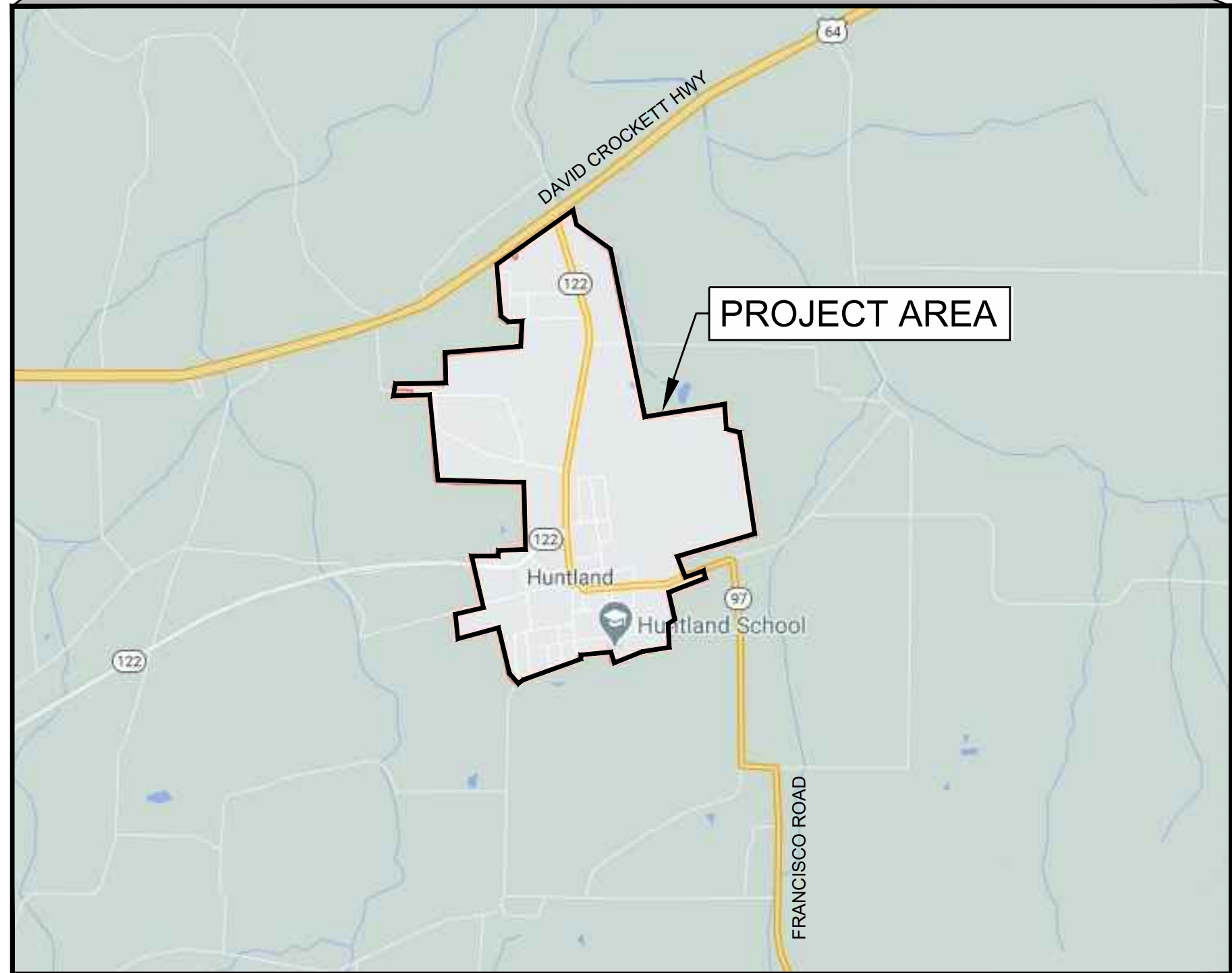
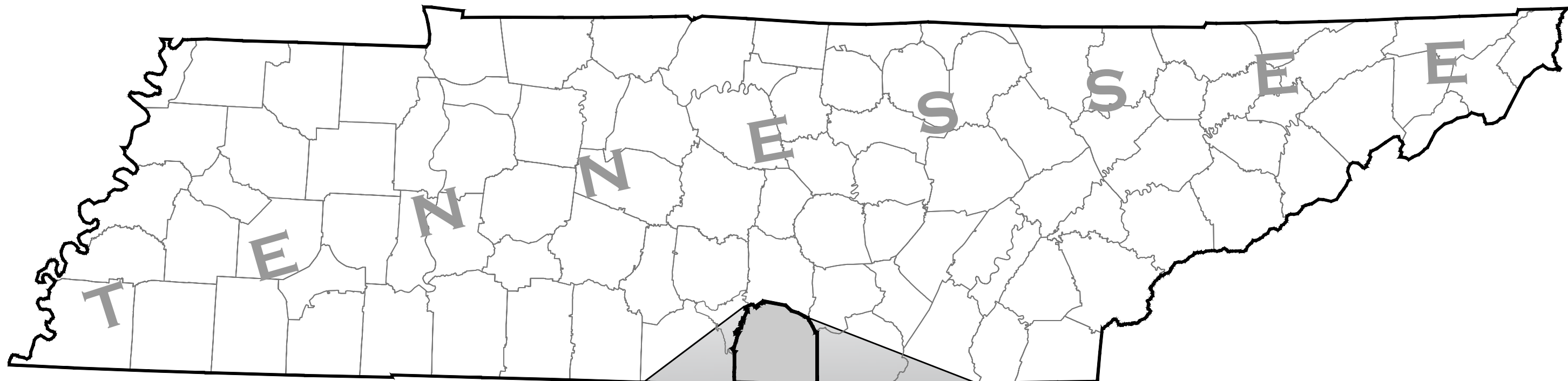




TOWN OF HUNTLAND SEWER COLLECTION SYSTEM PHASE 1

HUNTLAND, FRANKLIN COUNTY, TENNESSEE

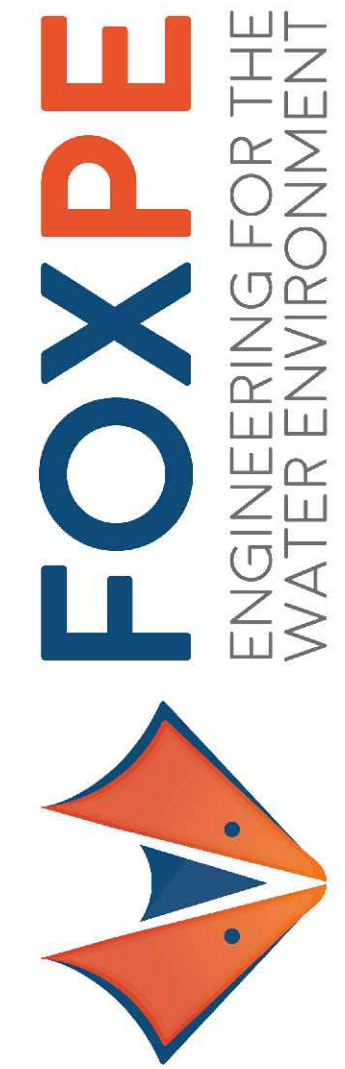
EDA INVESTMENT #04-01-07294



VICINITY MAP

NOT TO SCALE

Sheet Number	Sheet Title
GENERAL	
G1.0	COVER SHEET
G2.0	GENERAL NOTES
G3.0	LEGEND & SYMBOLOGY
C0.00	OVERALL SYSTEM LAYOUT
P1C-001	
C1.01	PLAN & PROFILE P1C-001
C1.02	PLAN & PROFILE P1C-001
C1.03	PLAN & PROFILE P1C-001
C1.04	PLAN & PROFILE P1C-001
P1C-002	
C1.05	PLAN & PROFILE P1C-002
C1.06	PLAN & PROFILE P1C-002
C1.07	PLAN & PROFILE P1C-002
P1C-003	
C1.08	PLAN & PROFILE P1C-003
P1C-004	
C1.09	PLAN & PROFILE P1C-004
P1C-005	
C1.10	PLAN & PROFILE P1C-005
P1C-006	
C1.11	PLAN & PROFILE P1C-006
P1C-007	
C1.12	PLAN & PROFILE P1C-007
C1.13	PLAN & PROFILE P1C-007
C1.14	PLAN & PROFILE P1C-007
SITE PLANS	
C4.0	HUNTLAND SCHOOL SITE PLAN
C5.0	
THOMPSON APPALACHIAN	
HARDWOOD SITE PLAN	
DETAILS	
CD1.0	CIVIL DETAILS
CD2.0	CIVIL DETAILS
CD3.0	CIVIL DETAILS
ELECTRICAL	
E1.0	ELECTRICAL DETAILS & SPECIFICATIONS



TOWN OF HUNTLAND
SEWER COLLECTION SYSTEM



ISSUE
FOR
BID

GRADING & EXCAVATION

- 1
- WHEN SPECIFIC GRADING REQUIREMENTS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL GRADE ALL AREAS WITHIN THE LIMITS OF CONSTRUCTION, OR OTHERWISE DISTURBED BY CONSTRUCTION.
- 2
- THE CONTRACTOR SHALL PERFORM ALL NECESSARY STRIPPING OF EXISTING TOPSOIL ON THE JOBSITE.
- 3
- NEWLY GRADED, EARTH AREAS NOT TO BE PAVED, RIP-RAPPED, OR STABILIZED, SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. PRIOR TO SEEDING, A FOUR INCH LAYER OF TOPSOIL SHALL BE PLACED ON THESE AREAS IN ACCORDANCE WITH SAID SPECIFICATIONS.
- 4
- THE CONTRACTOR IS TO LEGALLY DISPOSE OF, AT HIS OWN EXPENSE, ALL UNSUITABLE AND/OR SURPLUS, EXCAVATED MATERIAL.
- 6
- EXCAVATION ADJACENT TO EXISTING PAVEMENT SHALL BE MADE TO A NEAT LINE. NO TREES SHALL BE REMOVED WITHOUT OWNER'S PERMISSION. ALL TREES THAT ARE CUT OR KNOCKED DOWN WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED AND DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE. BURNING IS NOT PERMITTED, EXCEPT AS PROVIDED IN THE SPECIFICATIONS.

EROSION & SEDIMENT CONTROL

- 1
- ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL REQUIREMENTS SHALL BE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO A MINIMUM WIDTH NECESSARY TO ACCOMMODATE CONSTRUCTION SLOPES. EMBANKMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION. EROSION CHECKS AND SILT FENCE SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT-LADEN RUNOFF MAY ENTER A STREAM OR ADJACENT PROPERTY.
- 2
- ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION, APPROVED BY THE ENGINEER, ABOVE THE NORMAL HIGH WATER ELEVATION.
- 3
- THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL EROSION CONTROL PROVISIONS AS SET FORTH IN THE EROSION & SEDIMENT CONTROL HANDBOOK AVAILABLE FROM THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION.
- 4
- THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES THROUGHOUT THE LENGTH OF THE CONTRACT AS REQUIRED.
- 5
- THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND WATER CONTROL MEASURES (SUCH AS BERMS, SEDIMENT BASINS, SLOPE DRAINS, AND SILT FENCES) AS DIRECTED BY THE ENGINEER.
- 6
- NO EARTH OR OTHER ERODIBLE MATERIAL SHALL BE USED TO DIVERT STREAM FLOW OR TO CONSTRUCT COFFERDAMS. CLEAN CUT ROCK WITH FINES MAY BE USED, OR, IN THE CASE OF COFFERDAMS, STEEL SHEETING OR SAND BAGS IS PERMISSIBLE. WATER OR SEDIMENT ISOLATED BY COFFERDAMS SHALL BE PUMPED INTO SEDIMENT BASINS ON THE BANK OF THE STREAM.

UTILITIES

- 1
- LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 2
- THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY ELECTRICAL, COMMUNICATIONS, GAS, WATER, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMERS' SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 8 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES.
- 3
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- 4
- ANY EXISTING STORM DRAINAGE PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER.
- 5
- IF ANY UTILITIES ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY'S OWNER. REPAIR OF THE UTILITY SHALL THEN BE ACCORDING TO THE OWNER'S INSTRUCTIONS, AND ALL COST PAID FOR BY CONTRACTOR.

MISCELLANEOUS

- 1
- THE ENGINEER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.
- 2
- THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITIONS SHALL BE BORNE SOLELY BY THE CONTRACTOR.
- 3
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL FIELD LAYOUTS.
- 4
- ALL SALVAGEABLE MATERIAL FROM EXISTING PIPING AND STRUCTURES SHALL REMAIN PROPERTY OF THE OWNER. SAID MATERIAL SHALL BE CLEANED AND THEN DELIVERED TO THE OWNER AT A LOCATION DESIGNATED BY THE ENGINEER.
- 5
- ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER OR THROUGH TESTING, IS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
- 6
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AT HIS OWN EXPENSE ANY AND ALL DAMAGE THAT MAY OCCUR INSIDE AND OUTSIDE THE LIMITS OF THIS PROJECT AS A RESULT OF CONSTRUCTION.
- 7
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT FOR TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORDERING APPROPRIATE TESTS AS REQUIRED. THE TESTING COMPANIES SHALL BE APPROVED BY OWNER AND ENGINEER.
- 8
- THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE PROJECT WITHIN THIRTY (30) DAYS AFTER SUBSTANTIAL COMPLETION OF THE WORK. ("SUBSTANTIAL COMPLETION" SHALL BE DEFINED BY THE SPECIFICATIONS). THE OWNER RESERVES THE RIGHT TO WITHHOLD RETAINAGE UNTIL RECEIVING A COMPLETE SET OF SAID RECORD DRAWINGS.
- 9
- SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION IN FAVOR OF THE OWNER SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, IN ADVANCE AND IN WRITING, FROM THE ENGINEER.

PROJECT SPECIFIC NOTES

- 1
- CONTRACTOR TO VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO SUBMITTAL OF EQUIPMENT OR MATERIALS.
- 2
- REPLACE ALL EXISTING PAVEMENT IN STREETS, DRIVEWAYS, OR PARKING AREAS WHICH IS REMOVED, DESTROYED, OR DAMAGED BY CONSTRUCTION OF IMPROVEMENTS.
- 3
- MINIMUM SEPARATION FROM OTHER UNDERGROUND UTILITIES IN THE TDOT ROW SHALL BE 36 INCHES.
- 4
- MINIMUM DEPTH UNDER GUARDRAILS IN TDOT ROW SHALL BE 10 FEET.

ABBREVIATIONS

GENERAL

ABV	ABOVE	GAL	GALLON	R	RISER
AD	AREA DRAIN	GALV	GALVANIZED	RAD	RADIUS
ADJ	ADJUSTABLE	GND	GROUND	RD	ROOF DRAIN
AFF	ABOVE FINISH FLOOR	GV	GATE VALVE	REF	REFERENCE
ALT	ALTERNATE			REINF	REINFORCED
APPROX	APPROXIMATE	HC	HANDICAPPED	REQ	REQUIRED
ARCH	ARCHITECT	HDWR	HARDWARE	RM	ROOM
		HT	HEIGHT	RO	ROUGH OPENING
B&J	BORE AND JACK	HORIZ	HORIZONTAL		
BET	BETWEEN	HR	HOUR	S	SOUTH
BGS	BELOW GRADE SURFACE			SC	SERVICE CONNECTION
BLDG	BUILDING	ID	INNER DIAMETER	SCHED	SCHEDULED
BLW	BELOW	INSUL	INSULATION	SEAL	SEALANT
BO	BOTTOM OF	INT	INTERIOR	SECT	SECTION
BOT	BOTTOM			SF	SQUARE FOOT
		KILO	KILOGRAM	SHT	SHEET
CLG	CEILING			SIM	SIMILAR
CLR	CLEAR	LB(S)	POUNDS	SPEC	SPECIFICATION
CONC	CONCRETE	LDG	LANDING	SQ	SQUARE
CONT	CONTINUOUS	LF	LINEAR FOOT	SS	SANITARY SEWER
CTR	CENTER	LT	LIGHT	STD	STANDARD
				STOR	STORAGE
DBL	DOUBLE	MAX	MAXIMUM	STRUCT	STRUCTURAL
DET	DETAIL	MECH	MECHANICAL	SUSP	SUSPENDED
DIA	DIAMETER	MEMB	MEMBRANE	SYM	SYMMETRICAL
DIM	DIMENSION	MFR	MANUFACTURER		
DN	DOWN	MIN	MINIMUM	TEL	TELEPHONE
DR	DOOR	MISC	MISCELLANEOUS	THK	THICK
DS	DOWN SPOUT	MJ	MECHANICAL JOINT	THR	THRESHOLD
DWG	DRAWING	MTD	MOUNTED	TO	TOP OF
				Typ	TYPICAL
E	EAST	N	NORTH		
EA	EACH	NIC	NOT IN CONTRACT	UC	UNDERCUT
ELECT	ELECTRIC(AL)	NO	NUMBER	UNFIN	UNFINISHED
ELEV	ELEVATION	NOM	NOMINAL	UNO	UNLESS NOTED OTHERWISE
EMER	EMERGENCY	NTS	NOT TO SCALE	UTIL	UTILITY
ENCL	ENCLOSURE				
EQ	EQUAL	OA	OVERALL	VERT	VERTICAL
ETR	EXISTING TO REMAIN	OC	ON CENTER (DIMENSION)	VIF	VERIFY IN FIELD
EXST	EXISTING	OC	OPEN CUT (METHOD)		
EQUIP	EQUIPMENT	OD	OUTSIDE DIAMETER	W	WEST
		OFF	OFFICE	WT	WEIGHT
FA	FIRE ALARM	OPG	OPENING	W/	WITH
FD	FLOOR DRAIN	OPP	OPPOSITE	W/O	WITHOUT
FH	FIRE HYDRANT			WP	WATERPROOF
FIN	FINISH	PNT	POINT		
FLR	FLOOR	PR	PAIR		
FT	FOOT OR FEET	PTD	PAINTED		
FO	FACE OF				

PIPE MATERIALS

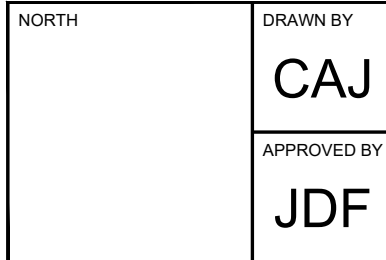
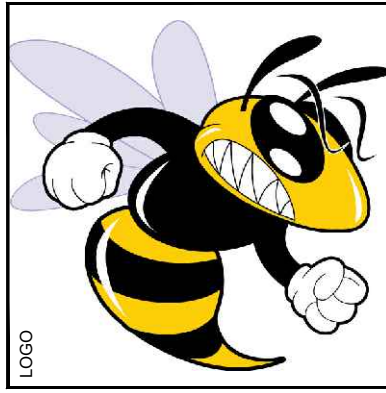
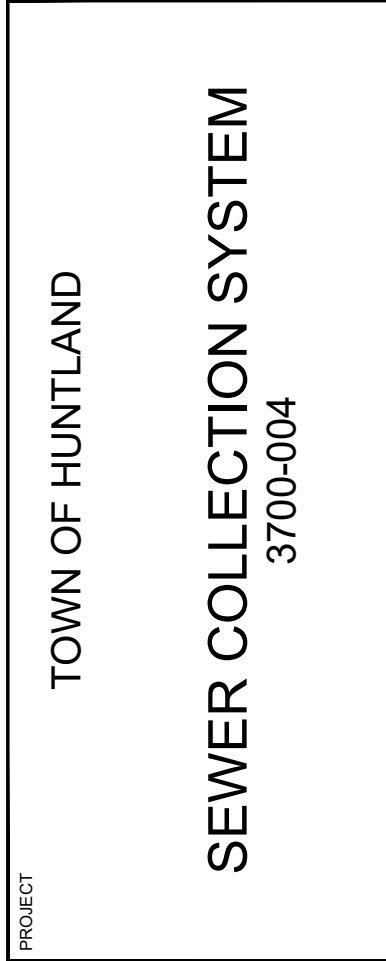
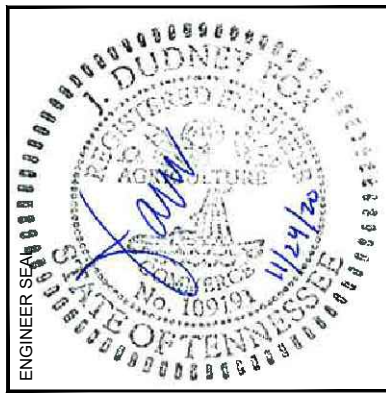
BSP	BLACK STEEL PIPE	CC	CORRUGATED COUPLING
CIP	CAST IRON PIPE	CPL	COUPLING
CISP	CAST IRON SOIL PIPE	FLG	FLANGE
CMP	CORRUGATED METAL PIPE	FREJ	FLEXIBLE RUBBER EXPANSION JOINT
CP	CONCRETE PIPE	MJ	MECHANICAL JOINT
CPVC	CHLORINATED POLYVINYL CHLORIDE	OR	"O" RING
CSP	CARBON STEEL PIPE (SEAMLESS)	PE	PLAIN END
CU	COPPER	PO	PUSH ON
DIP	DUCTILE IRON PIPE	RJ	RESTRAINED JOINT
FRP	FIBERGLASS REINFORCED PIPE	SW	SOLVENT WELD
GIP	GALVANIZED IRON PIPE	SWT	SWEAT
GSP	GALVANIZED STEEL PIPE	NPT	THREADED
HDPE	HIGH DENSITY POLYETHLENE		
IP	IRON PIPE		
PB	POLYBUTLENE		
PCP	PRESTRESSED CONCRETE PRESSURE		
PE	POLYETHLENE		
PP	POLYPROPYLENE		
PVC	POLYVINYL CHLORIDE		
RCP	REINFORCED CONCRETE PIPE		
RH	RUBBER HOSE		
SSTL	STAINLESS STEEL		
STL	STEEL (FABRICATED)		
VCP	VITRIFIED CLAY PIPE		

VALVE TYPES

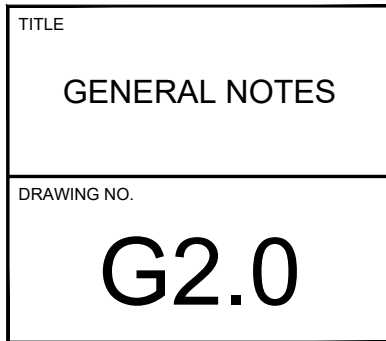
ARV	AIR RELEASE VALVE
BLV	BALL VALVE
BFV	BUTTERFLY VALVE
CNV	CONE VALVE
CV	CHECK VALVE
DV	DIAPHRAGM VALVE
GV	GATE VALVE
GBV	GLOBE VALVE
KV	KNIFE VALVE
MO	MOTOR OPERATED VALVE
MV	MUD VALVE
NV	NEEDLE VALVE
PHV	PINCH VALVE
PV	PLUG VALVE
PRV	PRESSURE REDUCING VALVE

JOINT TYPES








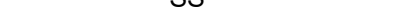










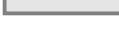











































CC	CORRUGATED COUPLING
CPL	COUPLING
FLG	FLANGE
FREJ	FLEXIBLE RUBBER EXPANSION JOINT
MJ	MECHANICAL JOINT
OR	"O" RING
PE	PLAIN END
PO	PUSH ON
RJ	RESTRAINED JOINT
SW	SOLVENT WELD
SWT	SWEAT
NPT	THREADED







DATE	ISSUE
3/5/21	IFB



CIVIL

EXISTING		PROPOSED	
GAS LINE		GAS LINE	
GAS LINE ABANDONED			
WATER LINE		WATER LINE	
WATER LINE ABANDONED			
SANITARY SEWER		SANITARY SEWER	
SANITARY SEWER ABANDONED			
FORCEMAIN		FORCEMAIN	
FORCEMAIN ABANDONED			
STORM SEWER		STORM SEWER	
OVERHEAD ELECTRIC		PERFORATED PIPE	
UNDERGROUND ELECTRIC			
FIBER OPTICS			
BUILDING/STRUCTURE		BUILDING/STRUCTURE	
ROADWAY		ROADWAY	
ROADWAY CENTERLINE		ROADWAY CENTERLINE	
SIDEWALK/CONCRETE		SIDEWALK/CONCRETE	
CONTOUR (MAJOR)		CONTOUR (MAJOR)	
CONTOUR (MINOR)		CONTOUR (MINOR)	
DITCH LINE		DITCH LINE	
STREAM			
PROPERTY LINE			
EASEMENT			
AIR RELEASE VALVE		AIR RELEASE VALVE	
SANITARY SEWER MANHOLE		SANITARY SEWER MANHOLE	
CLEANOUT		CLEANOUT	
CATCH BASIN		CATCH BASIN	
DRAINAGE MANHOLE		DRAINAGE MANHOLE	
HEADWALL		HEADWALL	
WATER METER BOX		WATER METER BOX	
VALVE		VALVE	
HYDRANT		HYDRANT	
CAP		CAP	
POWER POLE		POWER POLE	
LIGHT POLE		LIGHT POLE	
GUY		GUY	
COMMUNICATIONS MANHOLE		COMMUNICATIONS MANHOLE	

PROCESS

PIPING & STRUCTURE		
	EXISTING	NEW
PIPING		
STRUCTURE		

VALVES & FITTINGS		
	SINGLE LINE	DOUBLE LINE
BALL VALVE (BLV)		
BUTTERFLY VALVE (BFV)		
PLUG VALVE (PV)		
CHECK VALVE (CV)		
GATE VALVE (GV)		
KNIFE GATE VALVE (KGV)		
SOLENOID VALVE (SV)		
NEEDLE VALVE (NV)		
FLUSHING CONNECTION W/ QUICK DISCONNECT		
PIPING		
WELDED JOINT		
FLANGED JOINT		
MECHANICAL JOINT		
PUSH-ON		
FLANGE ADAPTER (FA)		
RESTRAINED FLANGE ADAPTER (RFA)		
EXPANSION COUPLING		

PIPE LINE IDENTIFICATION

12" XX-XXX

↑
↑
↑
MATERIAL
SERVICE
NOMINAL PIPE DIAMETER

MISCELLANEOUS

EROSION CONTROL	
SILT FENCE	
RIP-RAP	
INLET PROTECTION	
CHECK DAM	
EROSION EEL / WATTLE	
CONSTRUCTION ENTRANCE	
DEMOLITION	
STRUCTURE/EQUIPMENT	
PIPING (SINGLE LINE)	
PIPING (DOUBLE LINE)	

DRAWING ANNOTATION

DETAIL MARKER

SECTION MARKER

ELEVATION MARKER

EQUIPMENT MARKER

SHEET SPECIFIC NOTE MARKER

REVISION CLOUD & MARKER

CENTERLINE



TOWN OF HUNTLAND

SEWER COLLECTION SYSTEM

3700-004



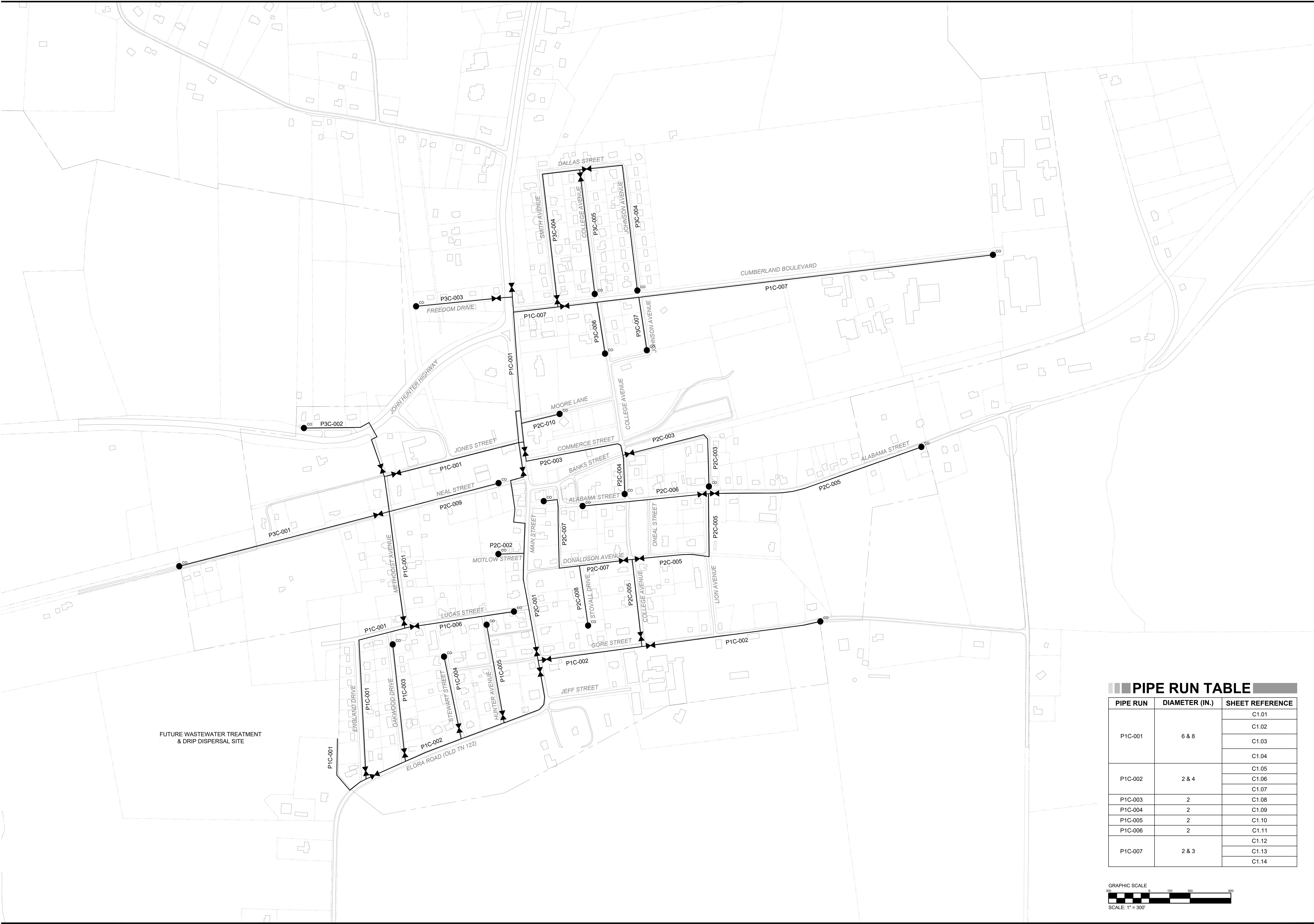
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	APPROVED BY JDF

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LEGEND & SYMBOLOGY

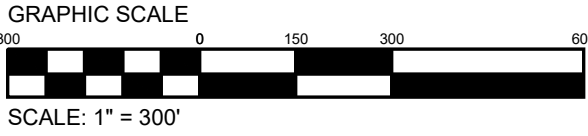
DRAWING NO.

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FUTURE WASTEWATER TREATMENT
& DRIP DISPERSAL SITE

PIPE RUN TABLE		
PIPE RUN	DIAMETER (IN.)	SHEET REFERENCE
P1C-001	6 & 8	C1.01
		C1.02
		C1.03
		C1.04
P1C-002	2 & 4	C1.05
		C1.06
		C1.07
P1C-003	2	C1.08
P1C-004	2	C1.09
P1C-005	2	C1.10
P1C-006	2	C1.11
P1C-007	2 & 3	C1.12
		C1.13
		C1.14



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WATER ENVIRONMENT
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FOXPE.COM

TOWN OF HUNTLAND

SEWER COLLECTION SYSTEM

3700-004

LOGO

NORTH

DRAWN BY
CAJ

APPROVED BY
JDF

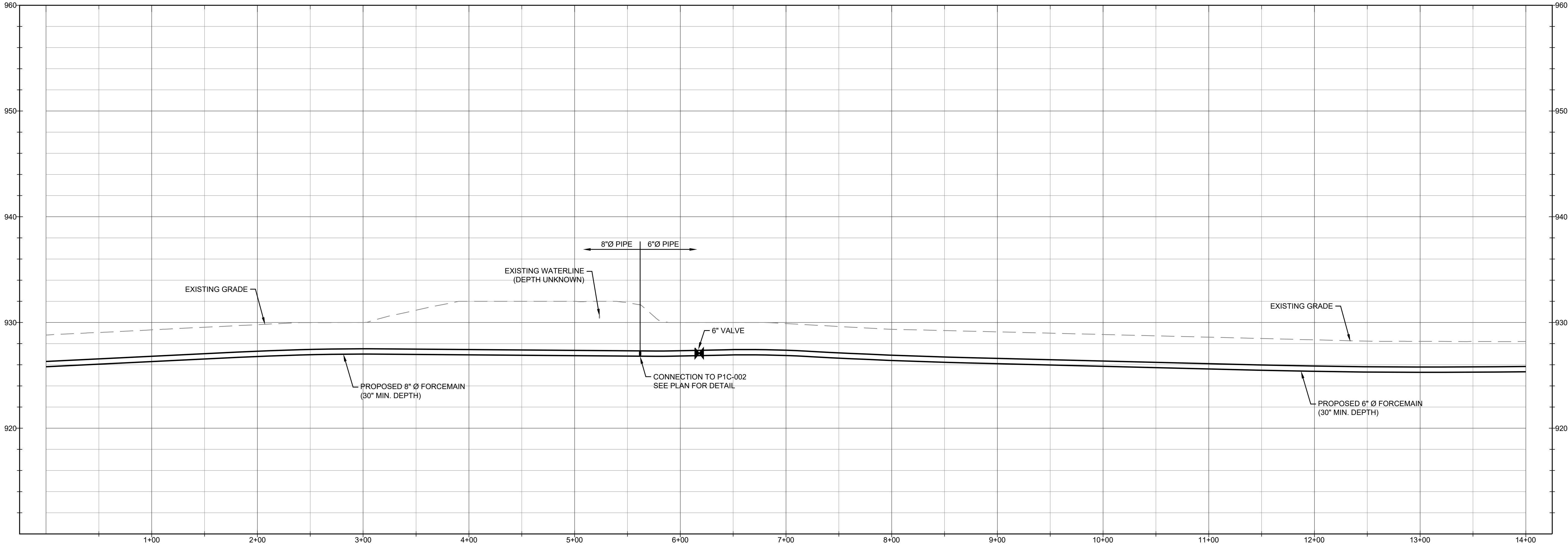
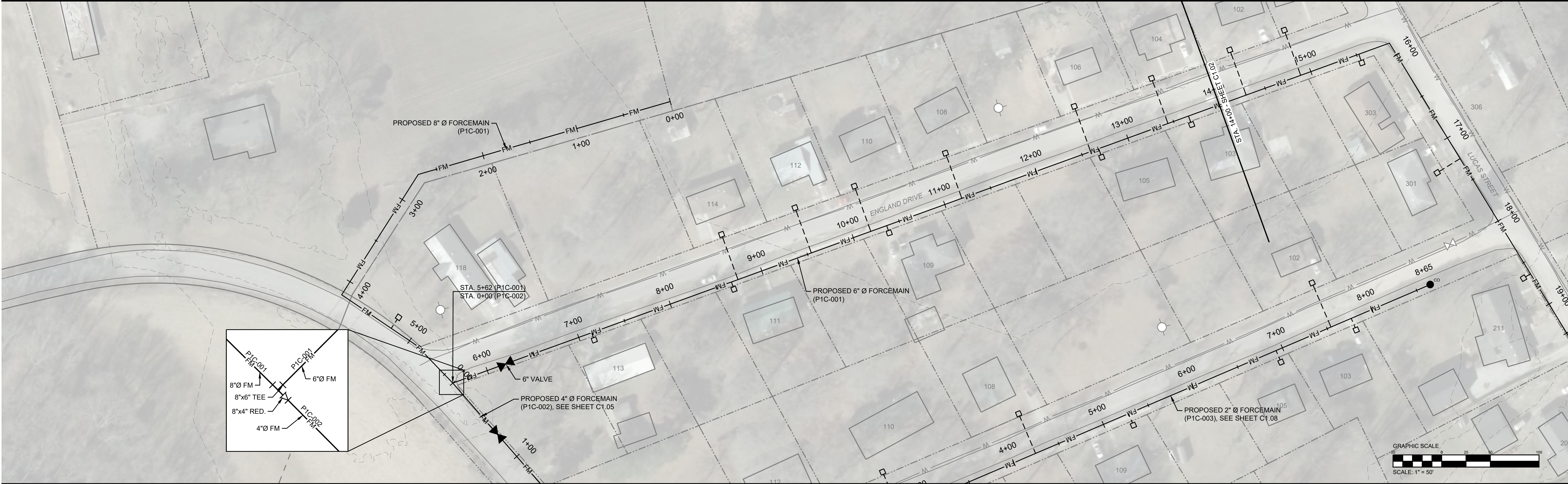
DATE	ISSUE
3/5/21	IFB

TITLE

OVERALL
SYSTEM LAYOUT

DRAWING NO.

C0.00



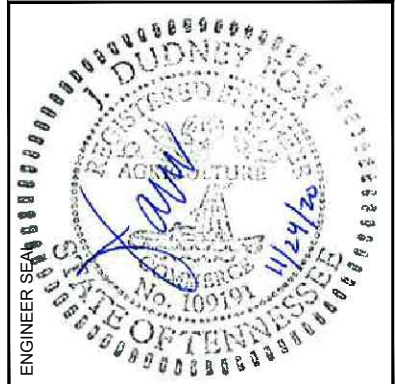
PROPOSED FORCEMAIN P1C-001 - PROFILE
0+00 TO 14+00
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

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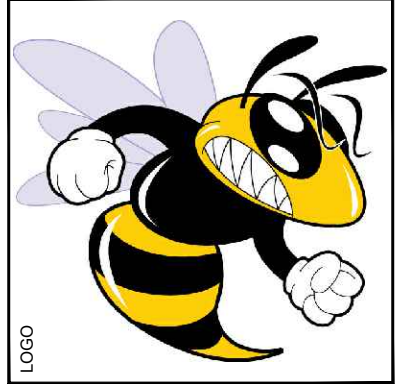


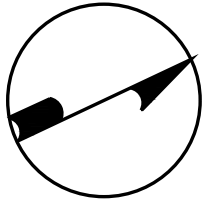
TOWN OF HUNTLAND

PROJECT

SEWER COLLECTION SYSTEM

3700-004





NORTH

DRAWN BY

CAJ

APPROVED BY

JDF

DATE	ISSUE
3/5/21	IFB

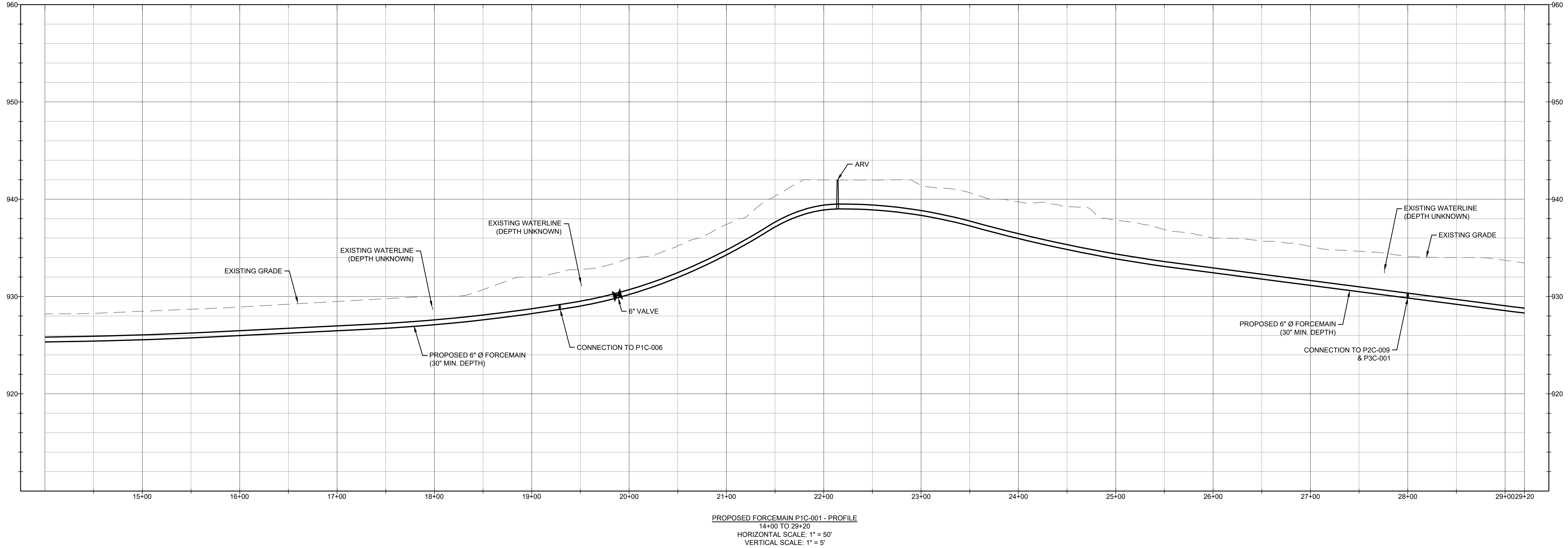
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PLAN & PROFILE

P1C-001

DRAWING NO.

C1.01

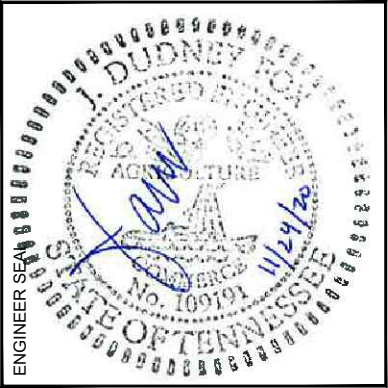


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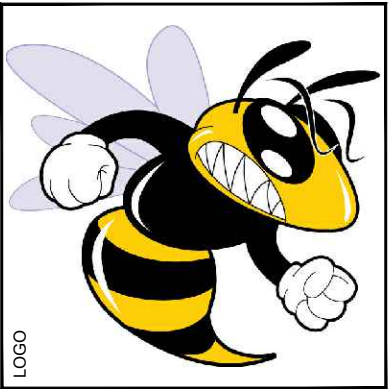
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NASHVILLE, TENNESSEE 37203
FOXPE.COM

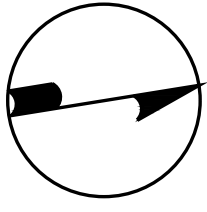


TOWN OF HUNTLAND

SEWER COLLECTION SYSTEM

3700-004





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DATE	ISSUE
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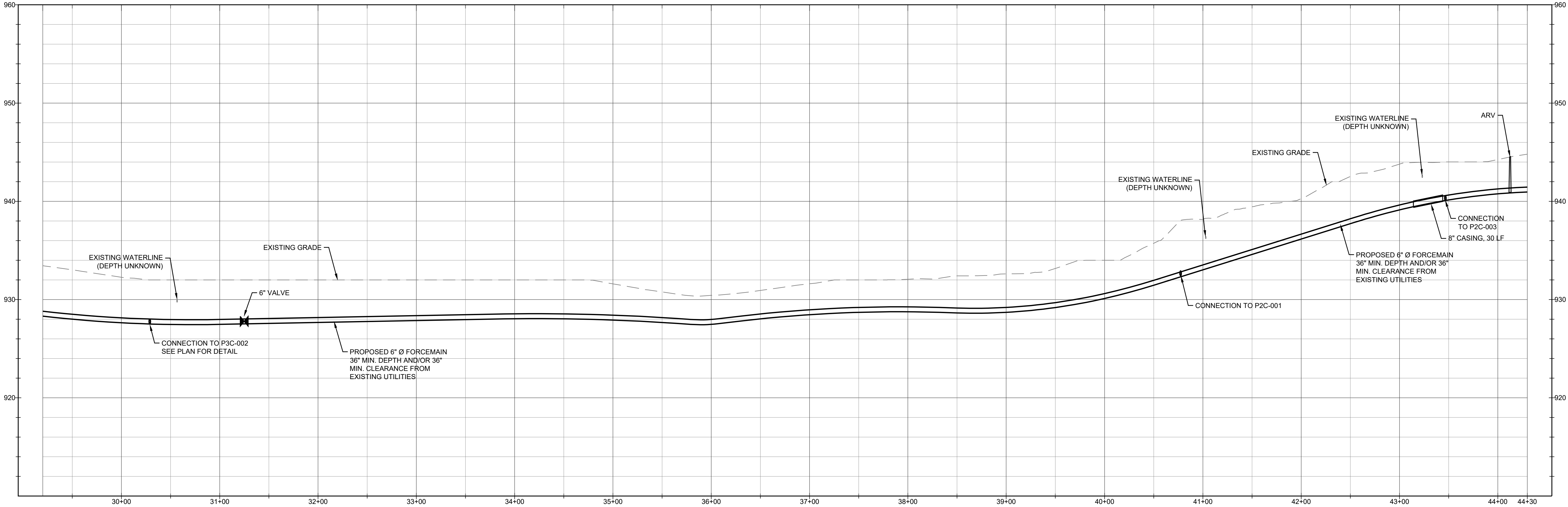
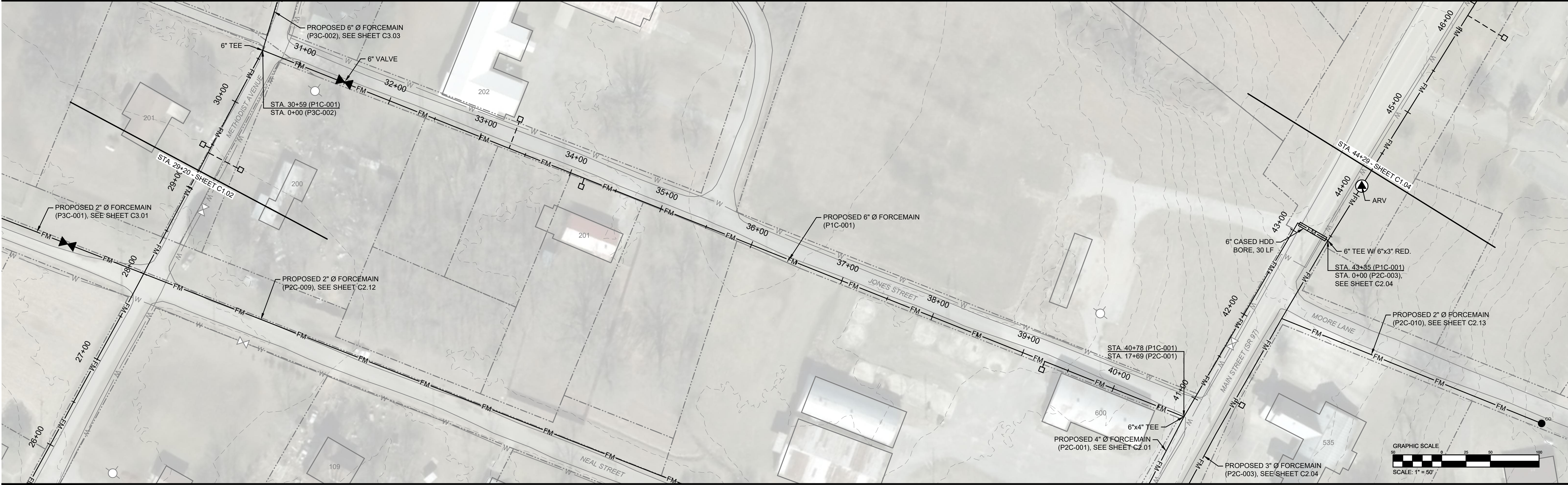
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PLAN & PROFILE

P1C-001

DRAWING NO.

C1.02



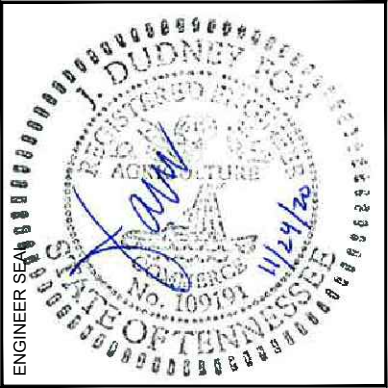
PROPOSED FORCEMAIN P1C-001 - PROFILE
29+20 TO 44+30
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

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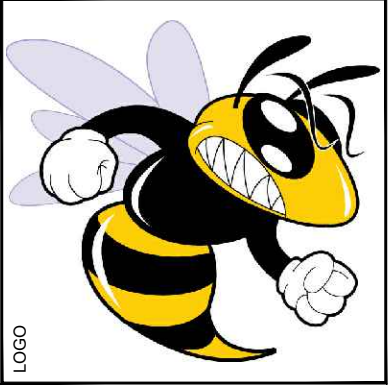
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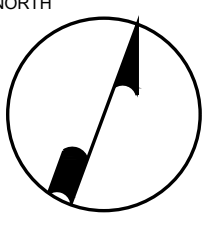


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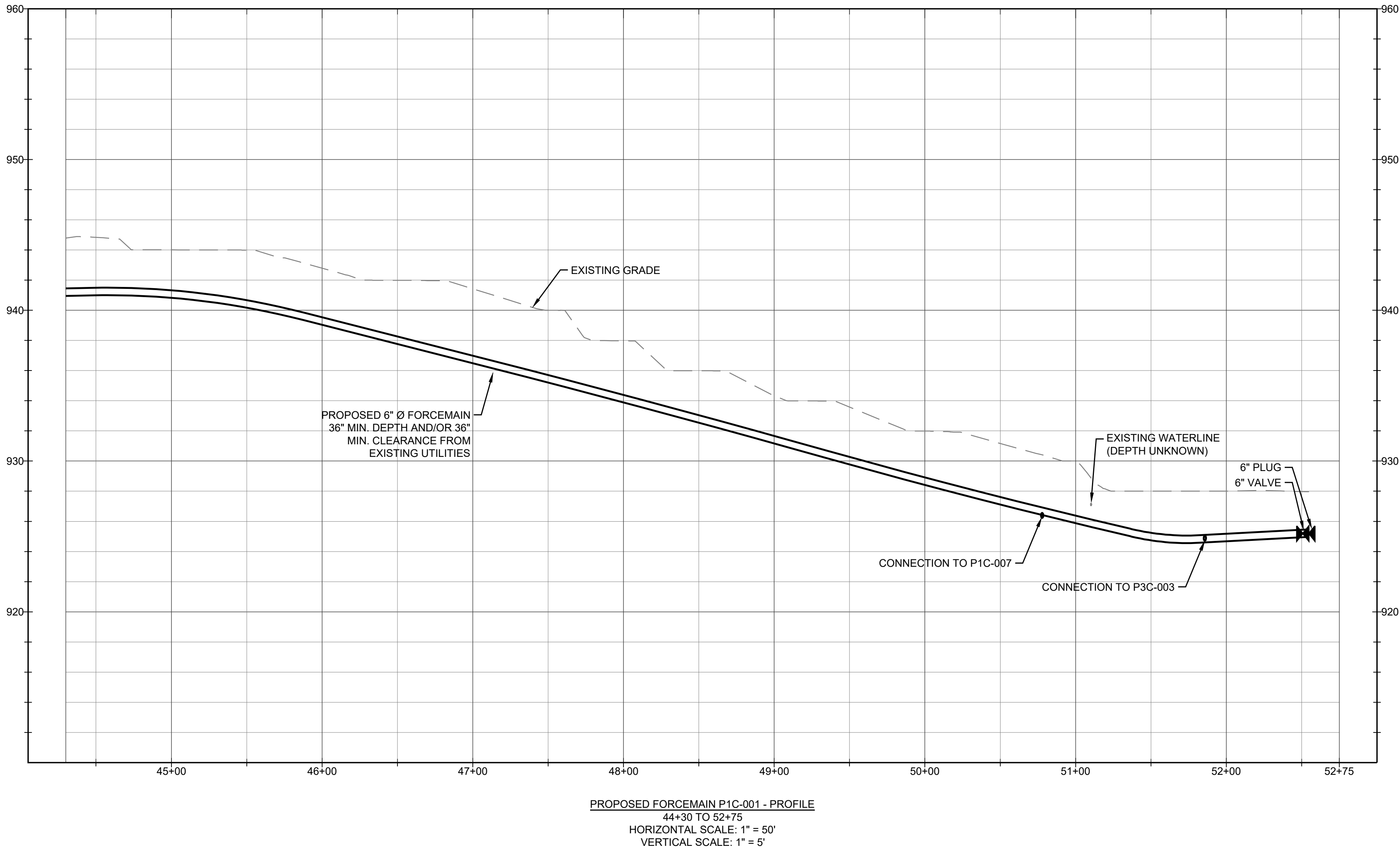
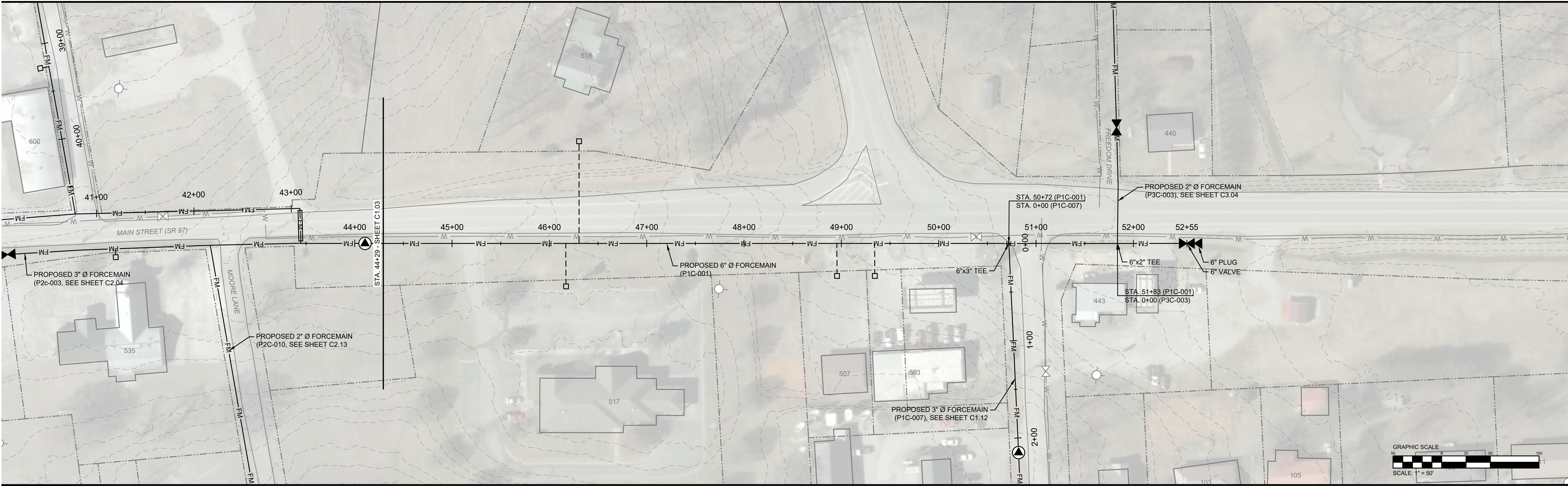
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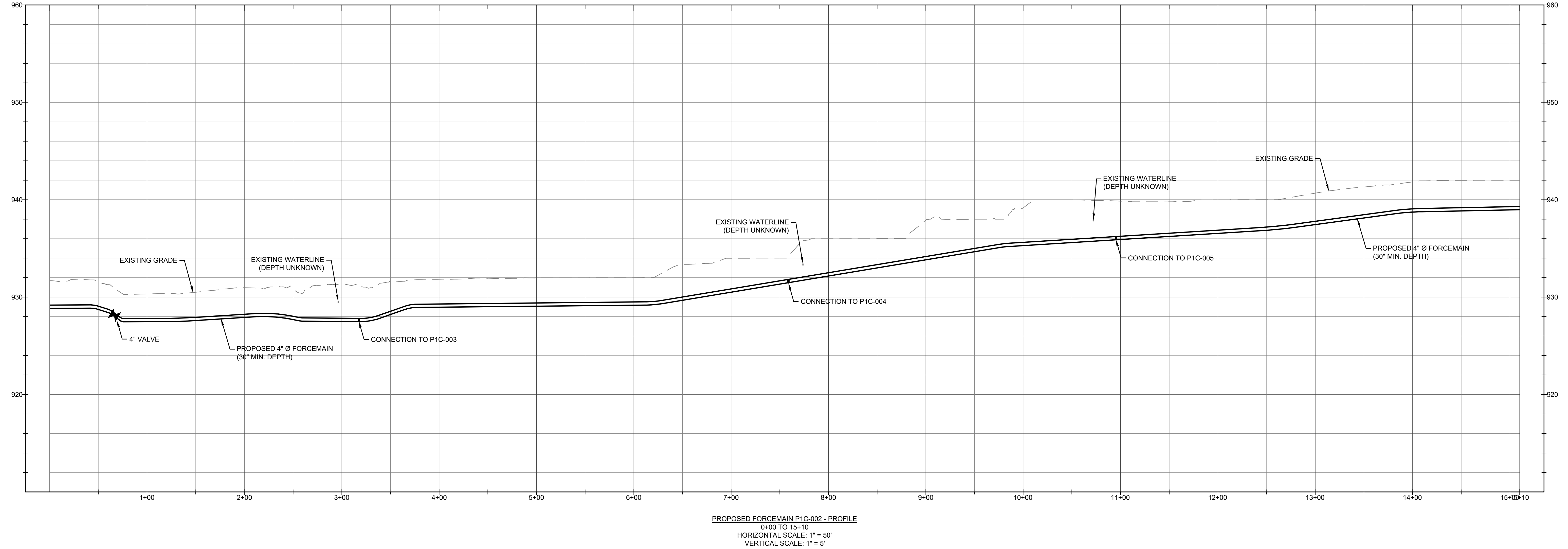
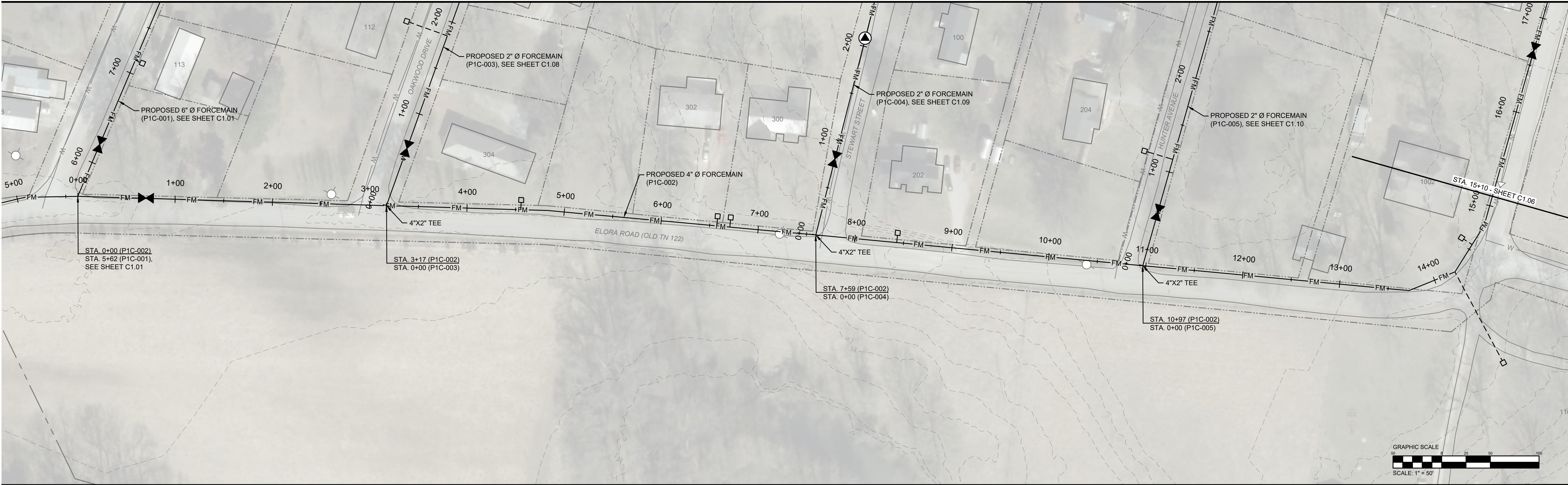
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PLAN & PROFILE
P1C-001

DRAWING NO.

C1.03

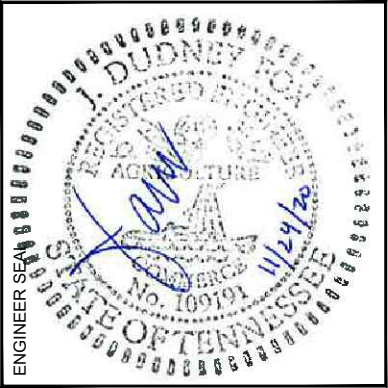




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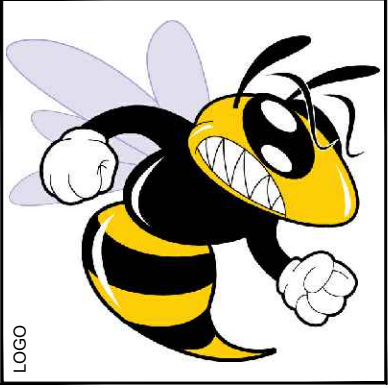
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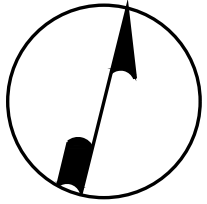
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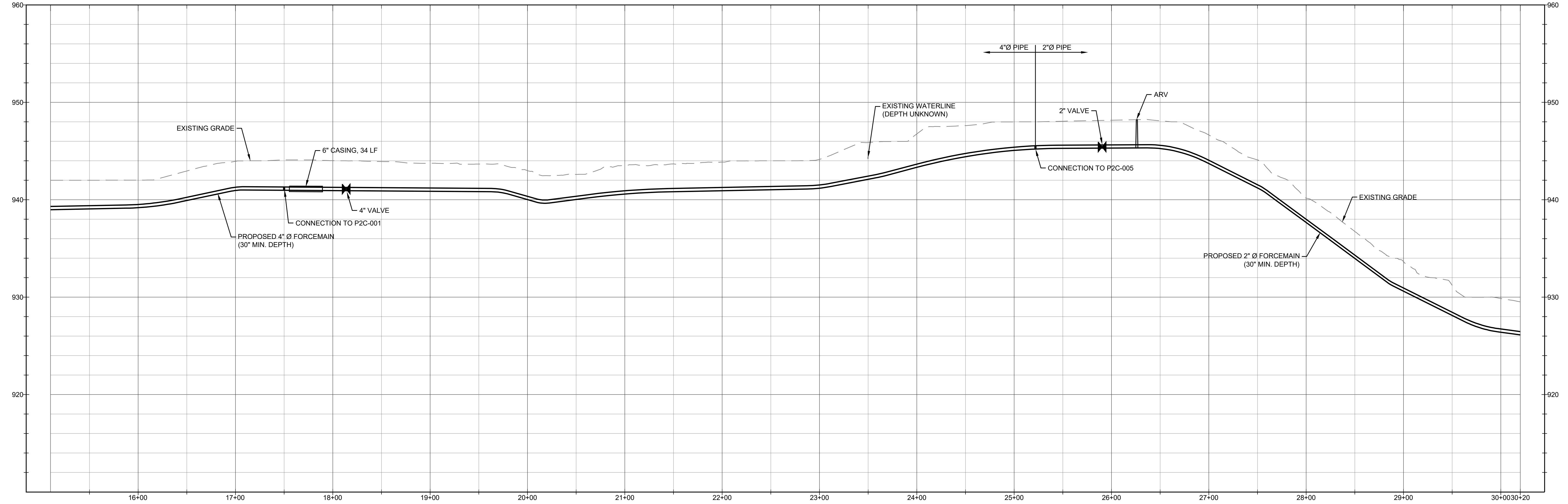
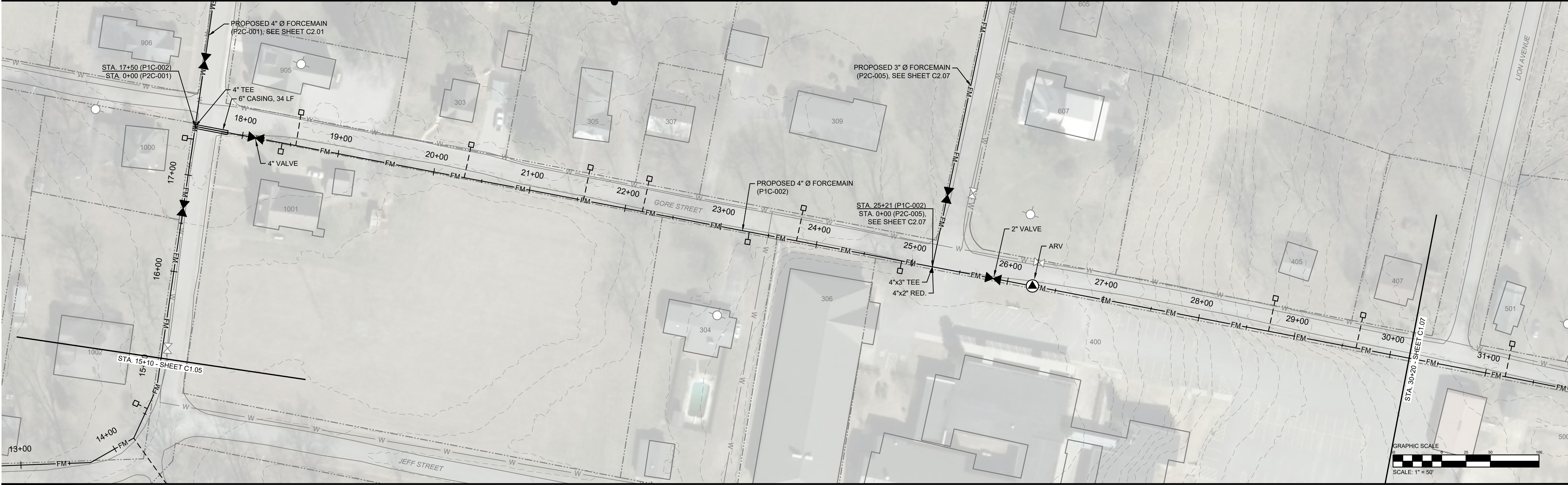
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TITLE

PLAN & PROFILE
P1C-002

DRAWING NO.

C1.05

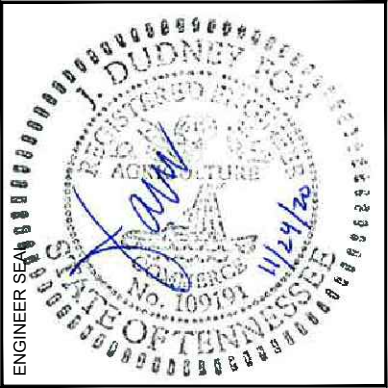


PROPOSED FORCEMAIN P1C-002 - PROFILE
15+10 TO 30+20
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

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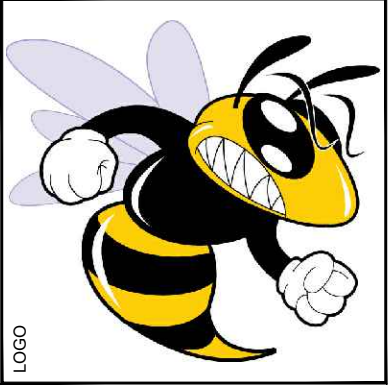
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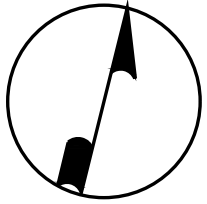


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PROJECT

SEWER COLLECTION SYSTEM
37000-004





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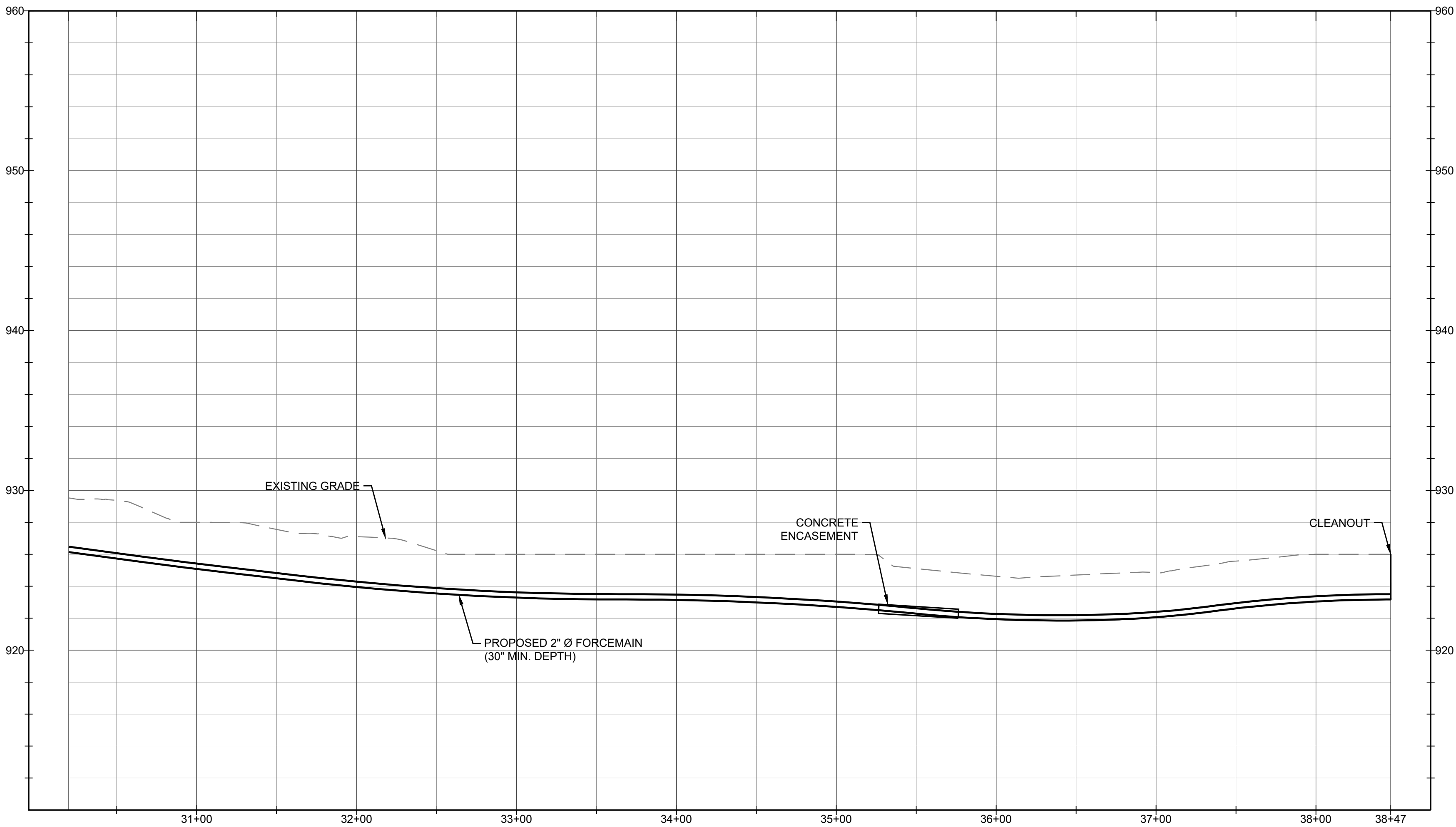
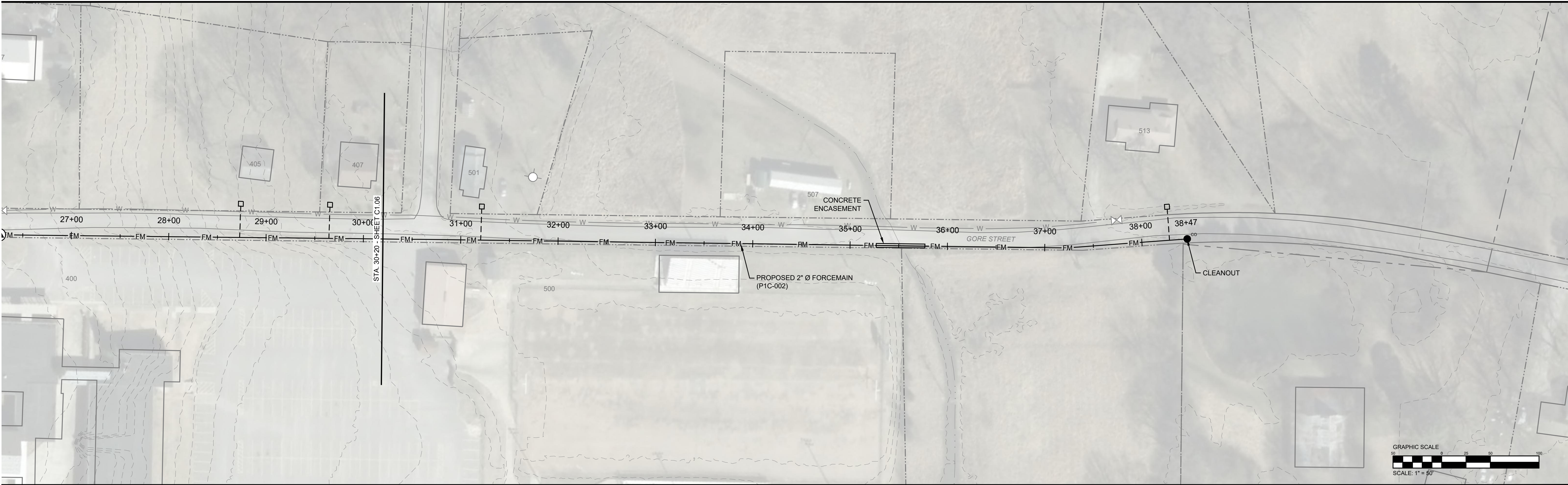
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3/5/21	IFB

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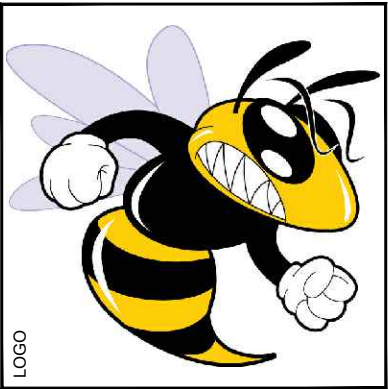
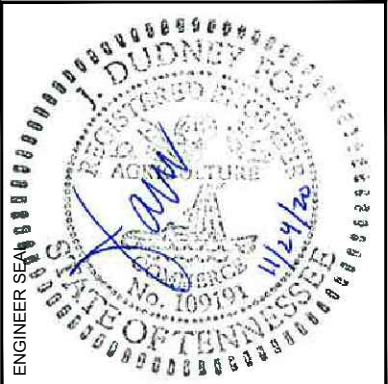
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P1C-002

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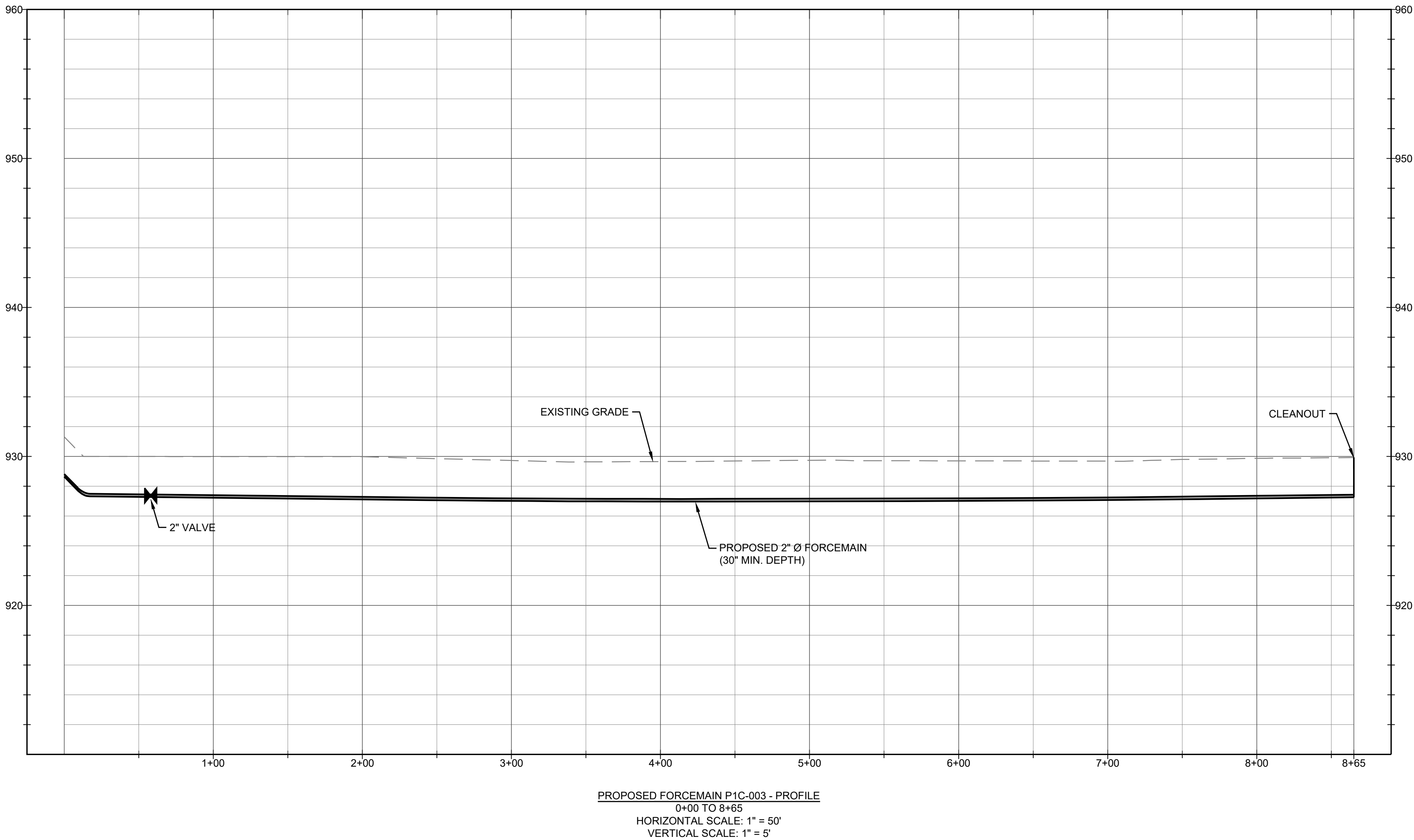
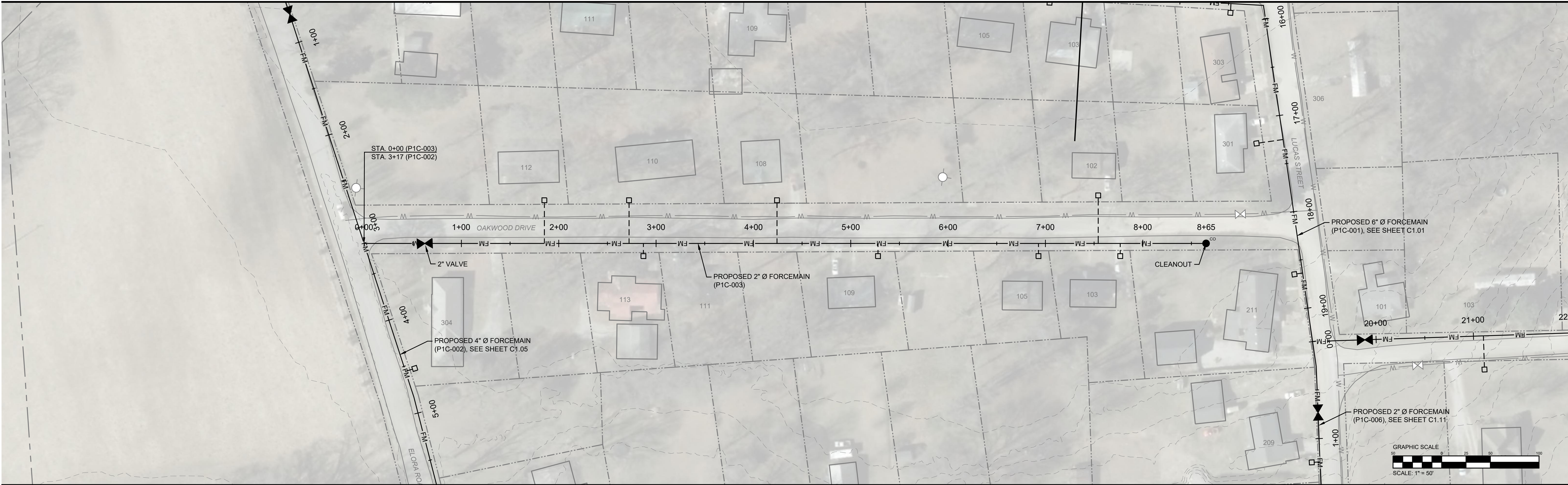
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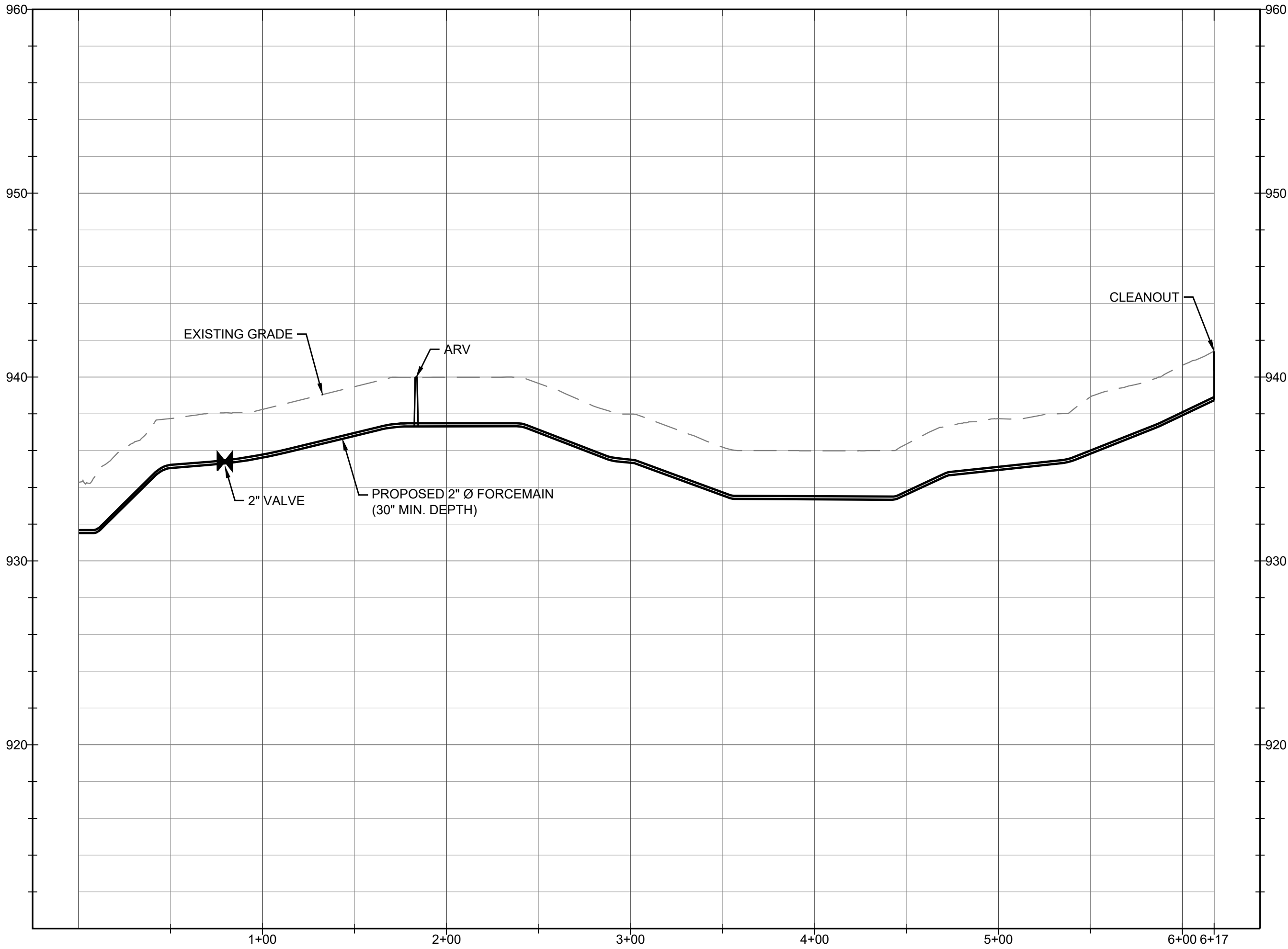
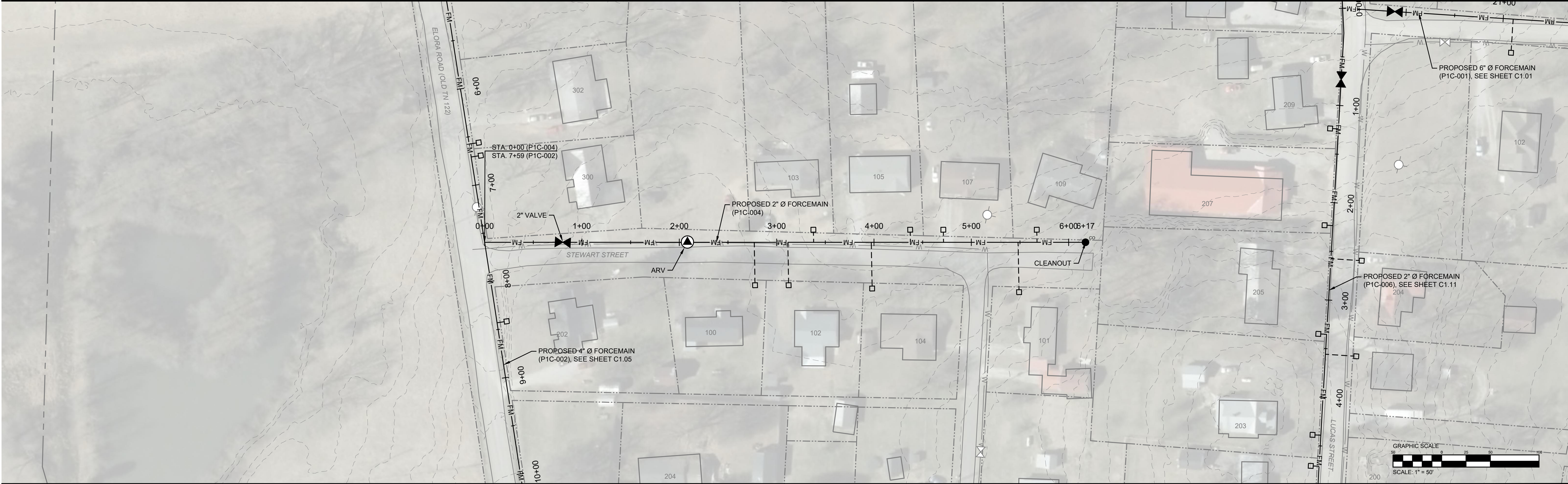


PROPOSED FORCEMAIN P1C-002 - PROFILE
30+20 TO 38+47
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



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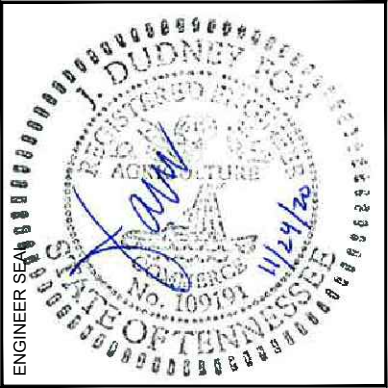
PROPOSED FORCEMAIN P1C-004 - PROFILE
0+00 TO 6+17
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VERTICAL SCALE: 1" = 5'

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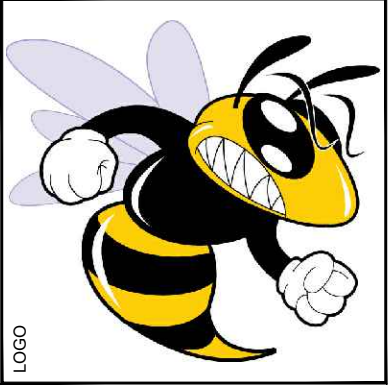
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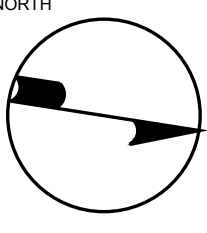
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PROJECT

SEWER COLLECTION SYSTEM
3700-004



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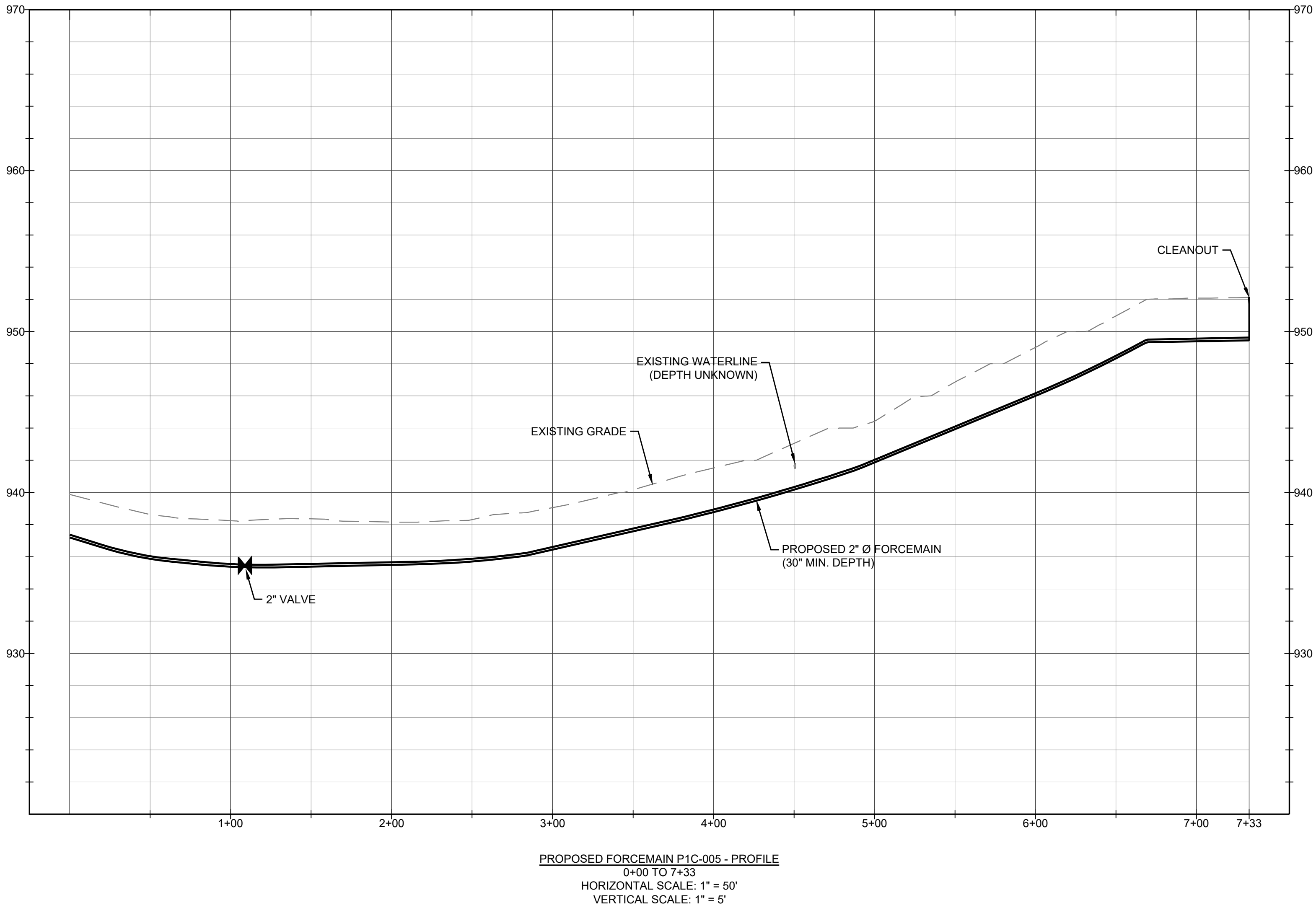
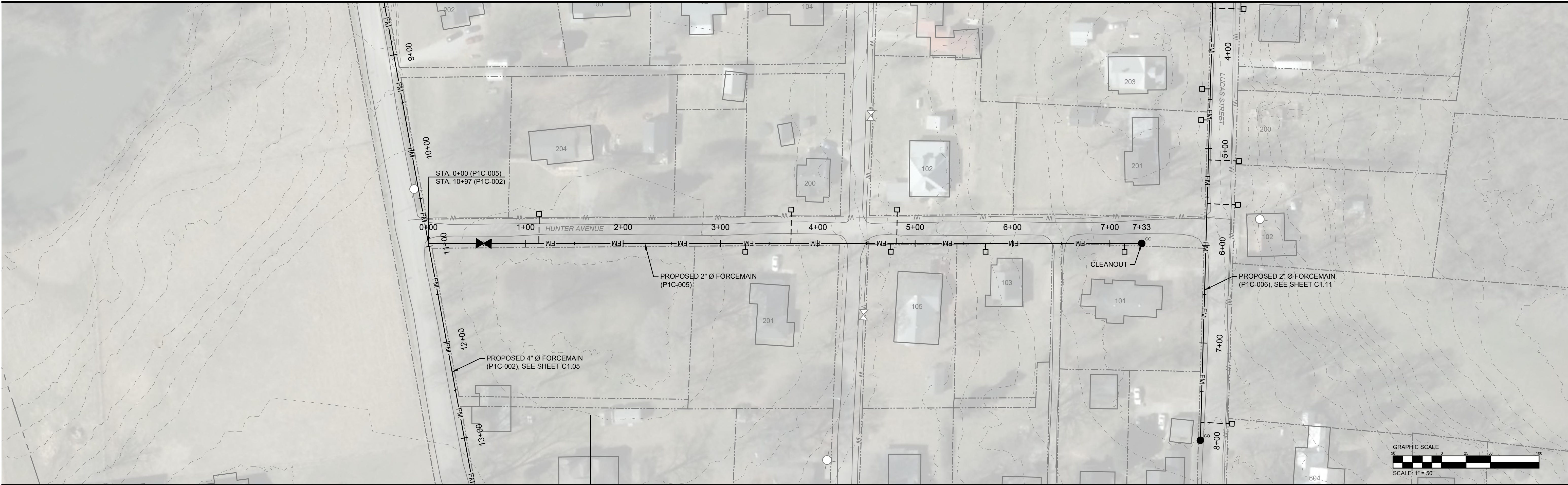
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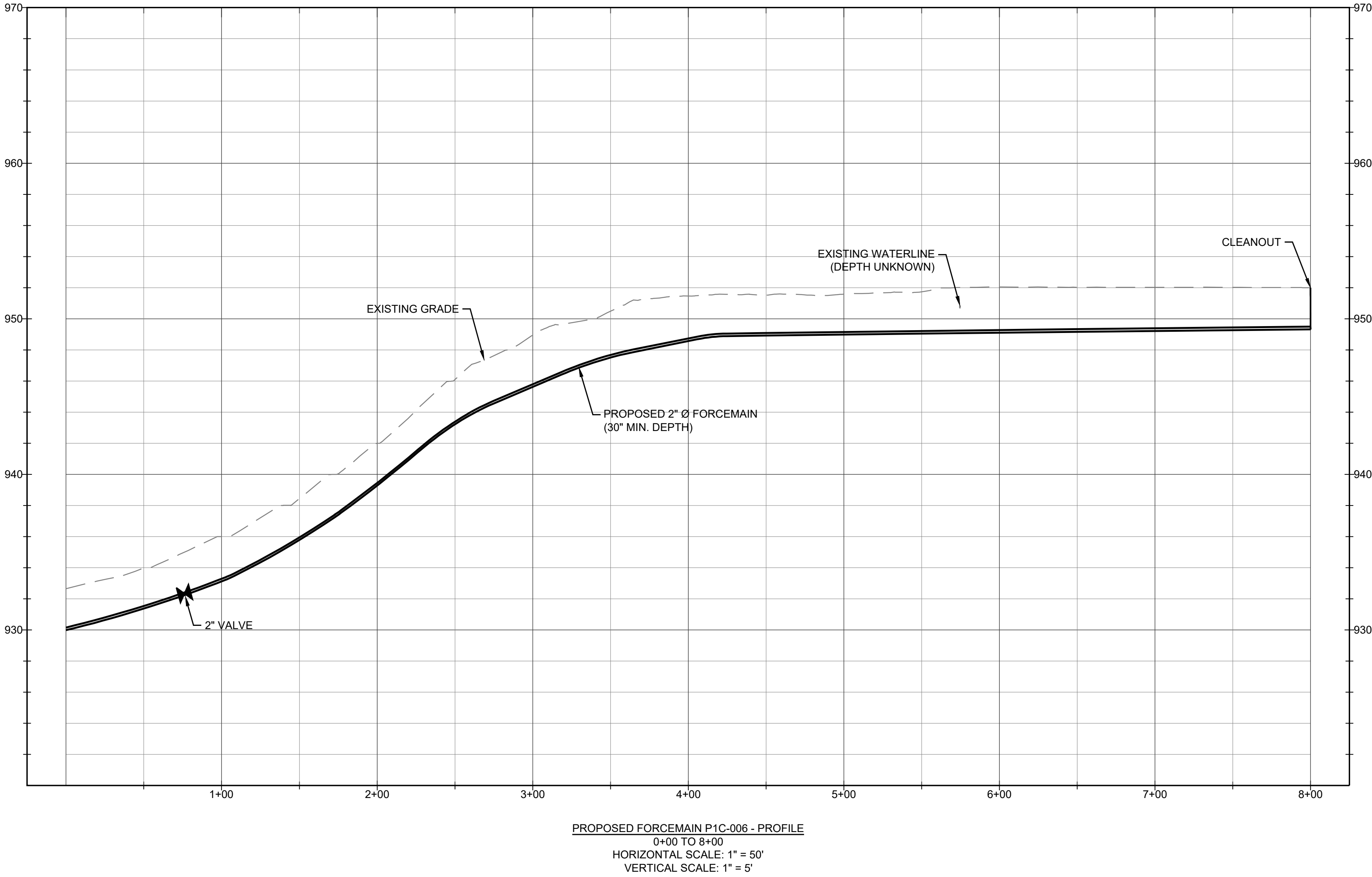
PLAN &
PROFILE
P1C-004

DRAWING NO.

C1.09



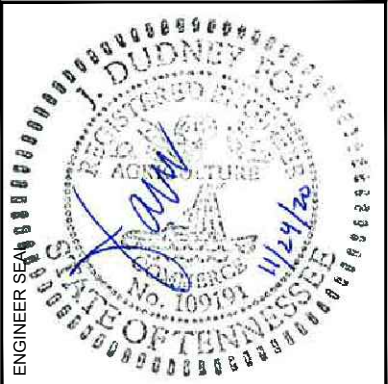
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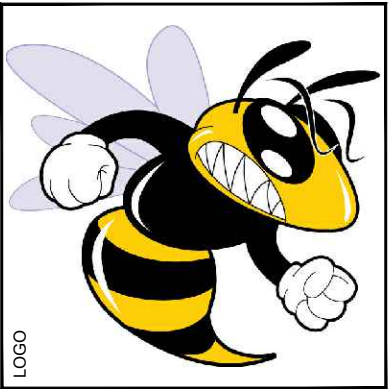


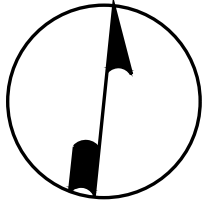
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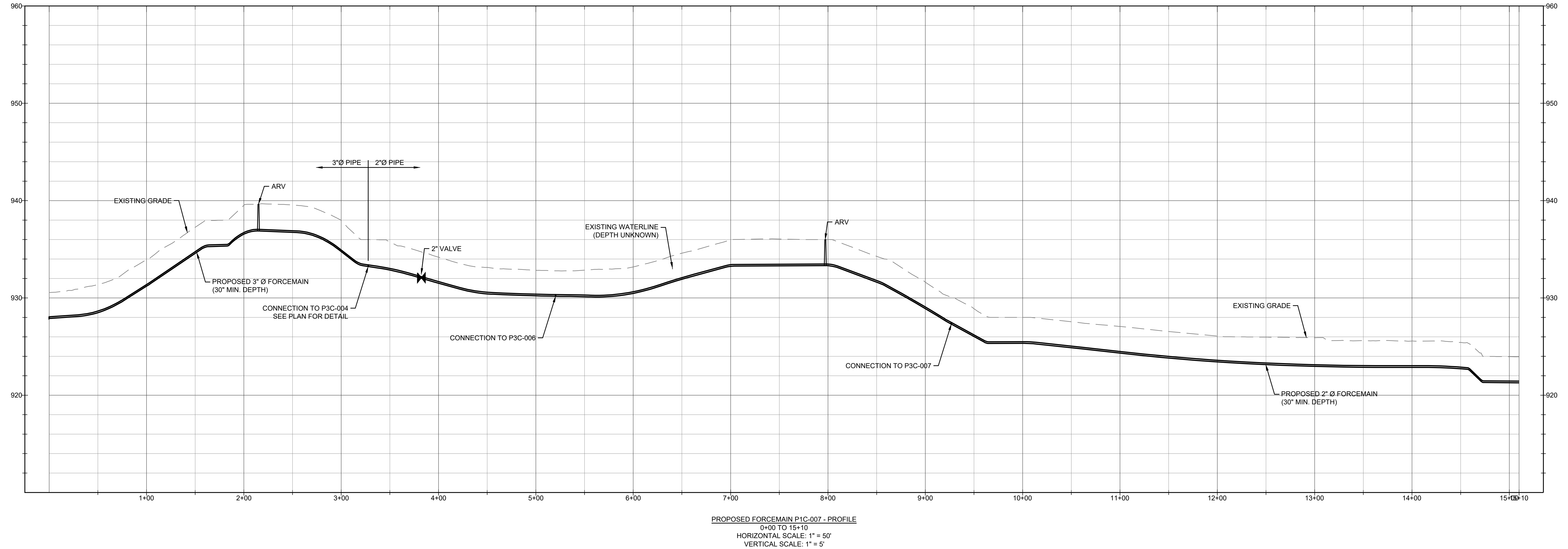
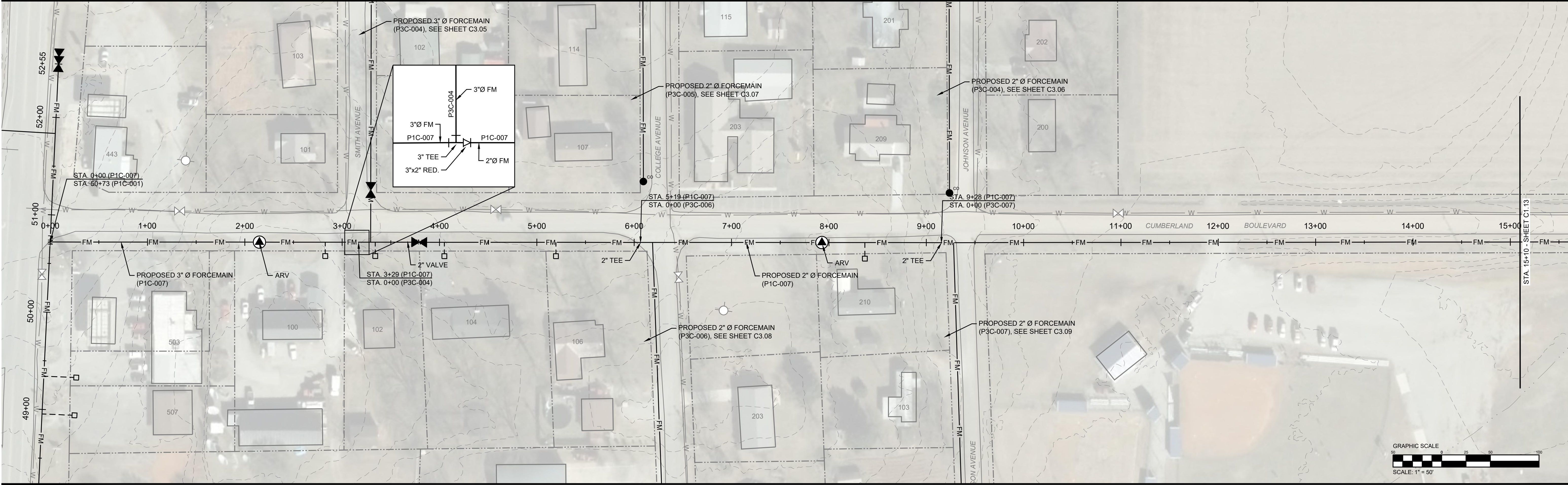
DATE	ISSUE
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TITLE

PLAN &
PROFILE
P1C-006

DRAWING NO.

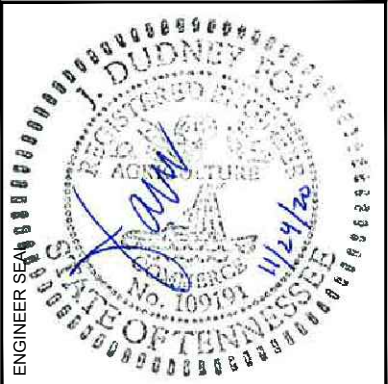
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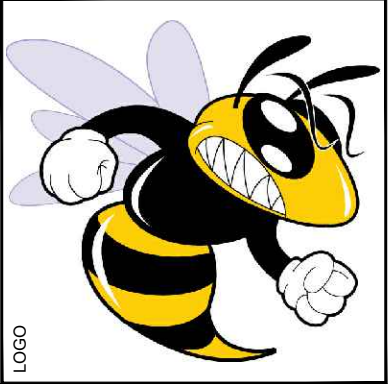
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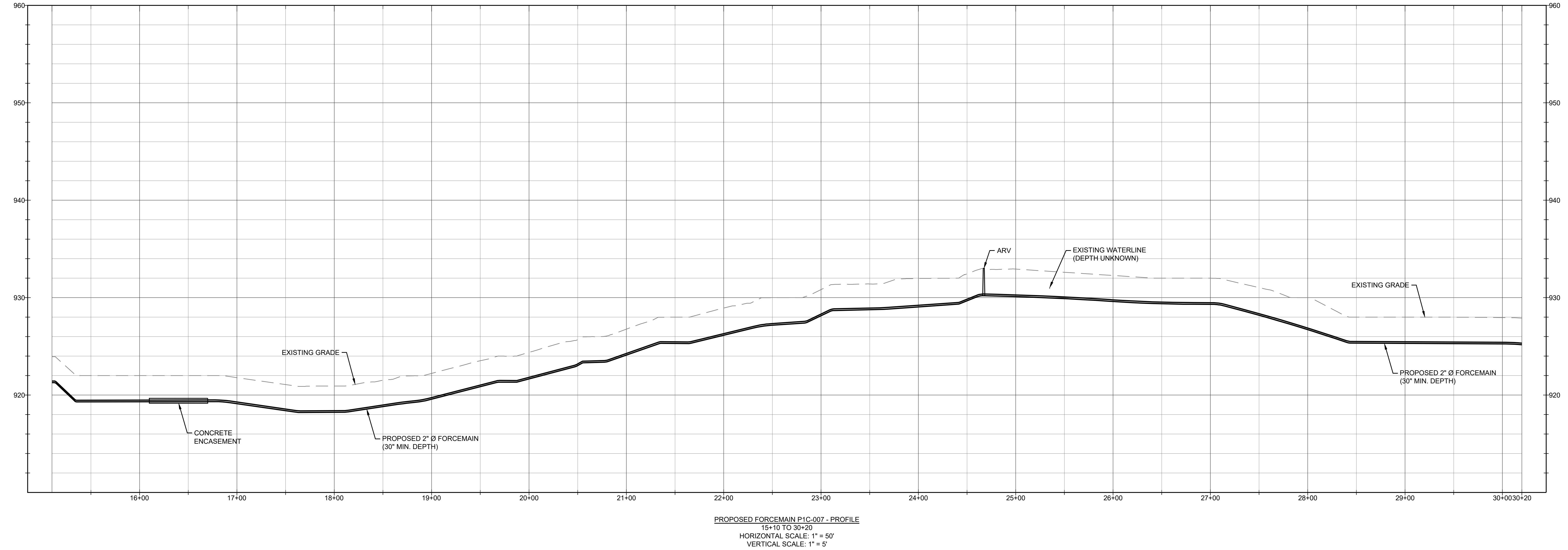
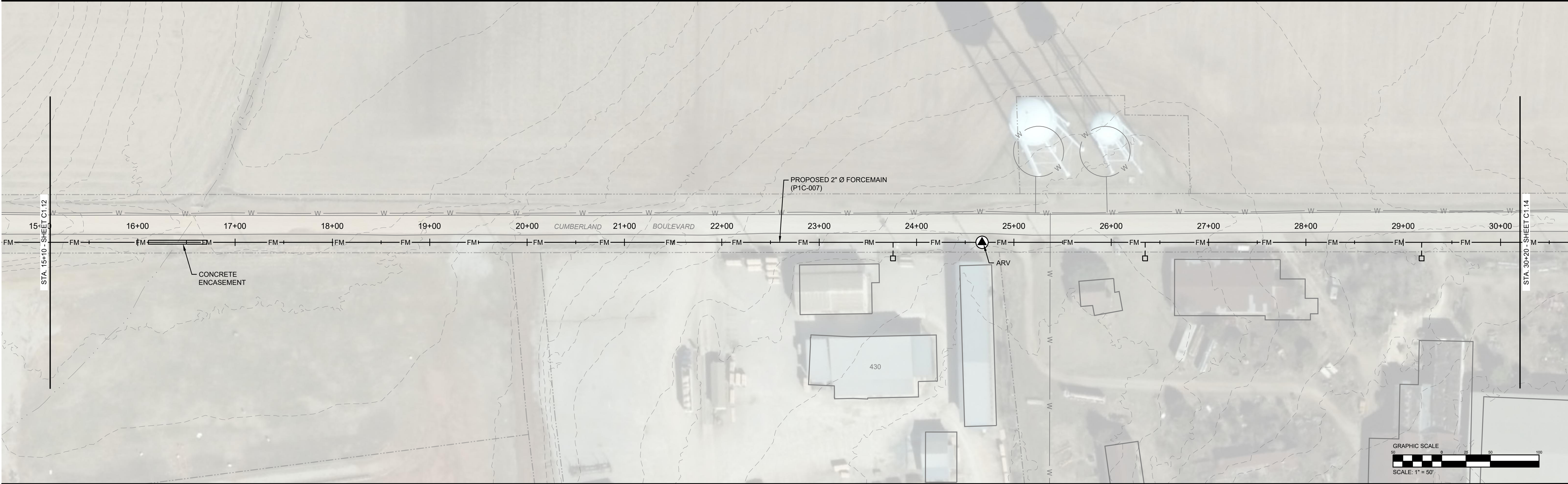
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PLAN &
PROFILE
P1C-007

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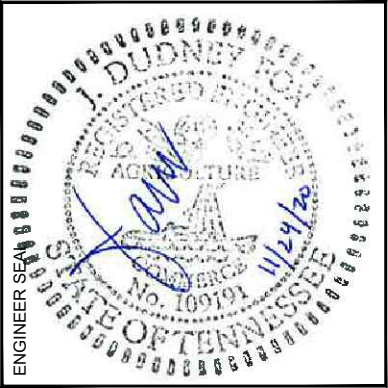
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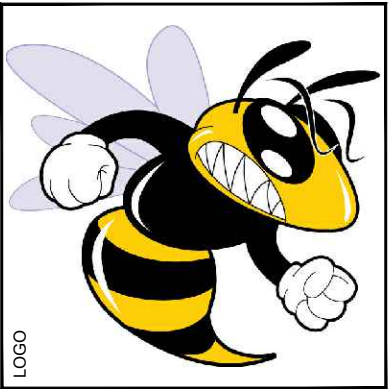


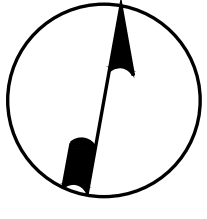
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SEWER COLLECTION SYSTEM
37000-004





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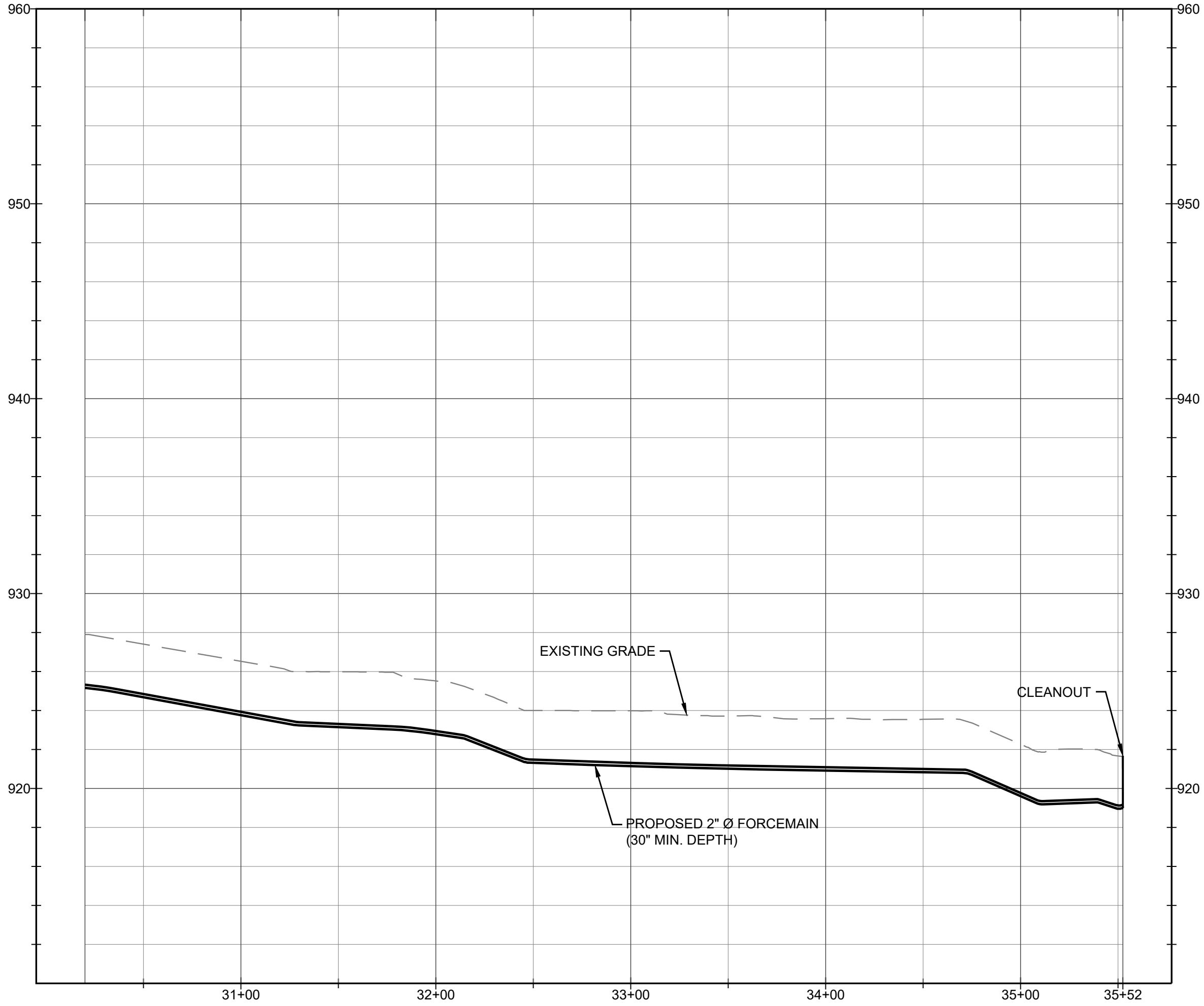
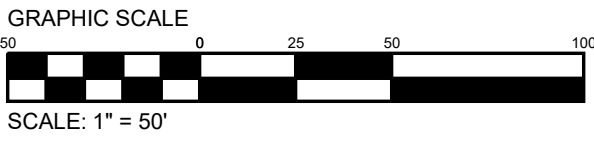
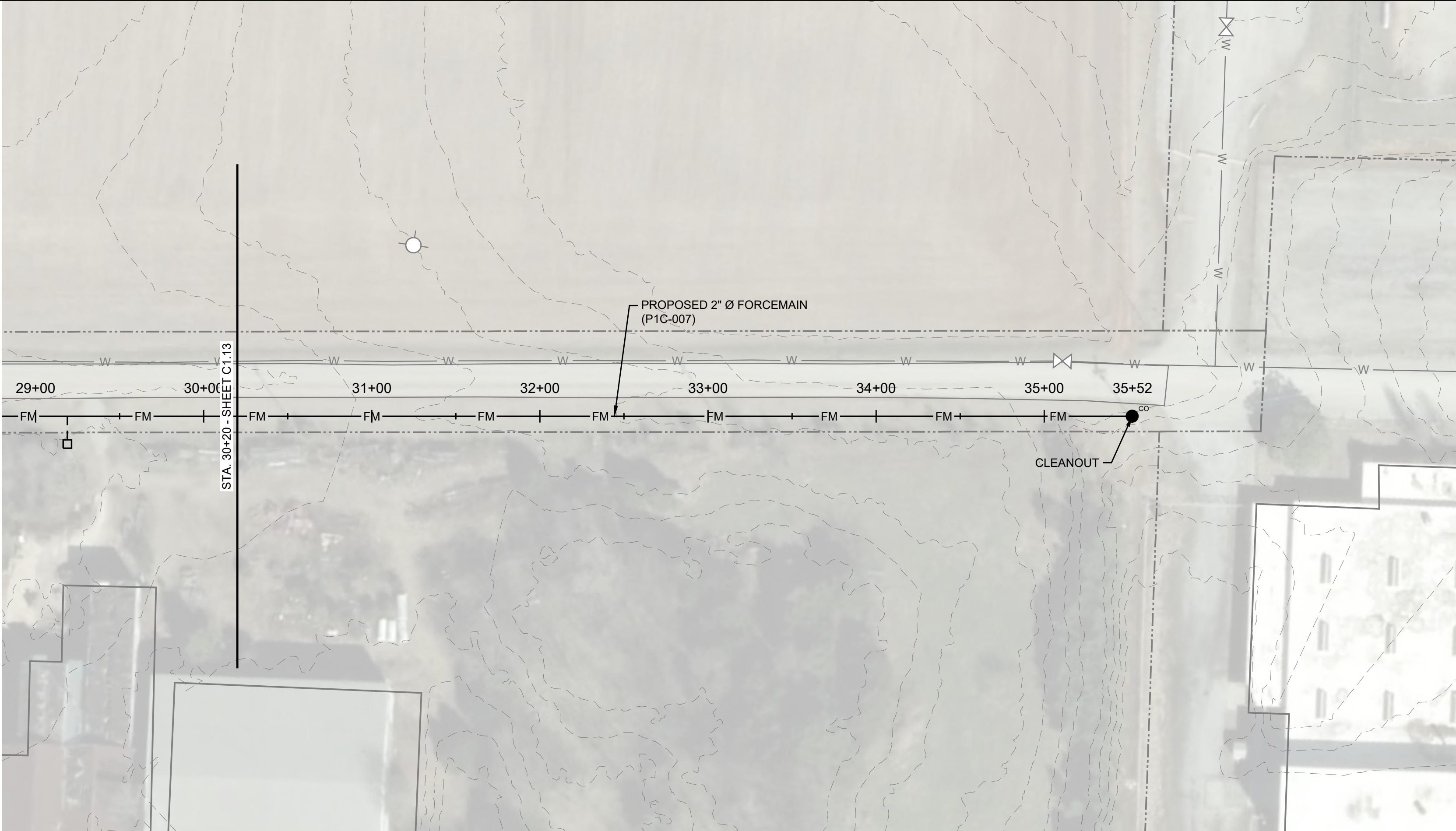
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TITLE
PLAN &
PROFILE
P1C-007

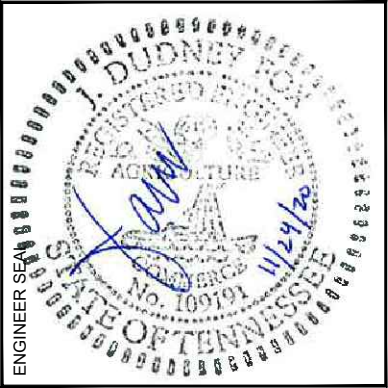
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PROPOSED FORCEMAIN P1C-007 - PROFILE
30+20 TO 35+52
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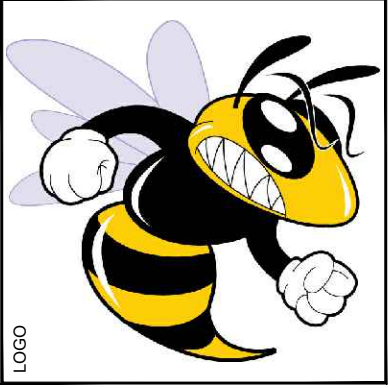


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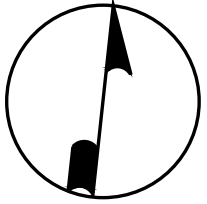


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3700-004



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TITLE

PLAN &
PROFILE
P1C-007

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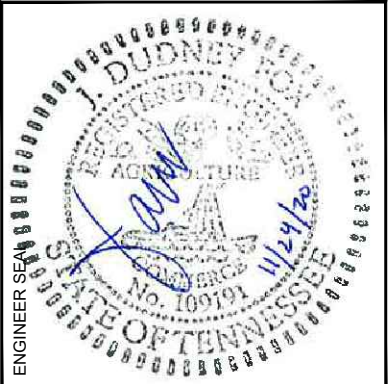
C1.14



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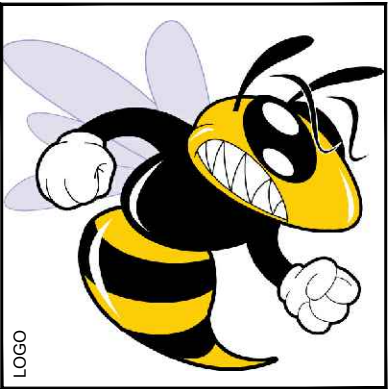
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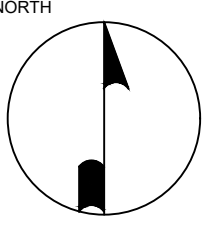


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TITLE

HUNTLAND
SCHOOL SITE PLAN

DRAWING NO.

C4.0



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PROPOSED SEPTIC TANK SIZES

TANK	SIZE	QUANTITY
F	3,000	1
G	1,500	1
H	1,500	1
I	1,500	1
J	3,000	1

NOTES
1. ALL TANKS TO BE H20 RATED
2. ALL NEW SEWER LATERAL SHALL BE 6" SCH 40 PVC
4. ALL TANKS TO HAVE SIMPLEX PUMPS
5. ALL PUMPS TO BE 240/1/60
6. EFFLUENT SERVICE LINES TO BE 1.5-INCH

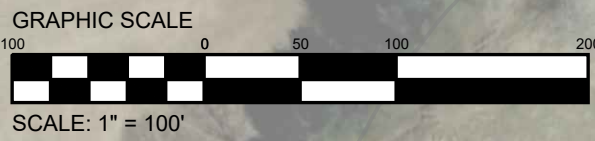
- GENERAL NOTES**
1.

ALL EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK.
2.

CONTRACTOR SHALL LOCATE EXISTING SEPTIC TANK AND LATERAL CONNECTIONS, WHERE APPLICABLE. ACTUAL LOCATIONS SHALL BE REPORTED TO THE ENGINEER. NEW SEPTIC TANKS SHALL NOT BE INSTALLED UNTIL THE ENGINEER AND THOMPSON HARDWOOD HAVE APPROVED THE PROPOSED LOCATIONS.
3.

THE LOCATIONS OF NEW SEPTIC TANKS SHOWN ON THE PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE FINAL PROPOSED LOCATIONS OF NEW SEPTIC TANKS WILL NOT BE FINALIZED UNTIL EXISTING TANKS LOCATIONS AND CONNECTING LATERALS HAVE BEEN VERIFIED AND UNTIL THOMPSON HARDWOOD HAS APPROVED THE PROPOSED LOCATIONS.
4.

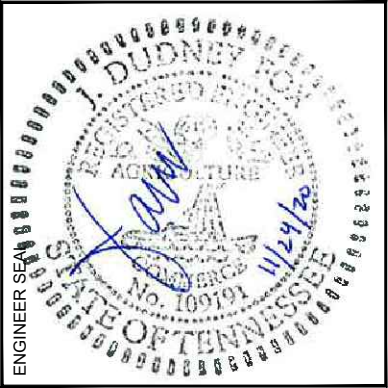
SEWER SERVICE FOR THOMPSON HARDWOOD, WHERE APPLICABLE, SHALL REMAIN OPERATIONAL THROUGHOUT THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTING AND PROPERLY DISPOSING OF SEWAGE WHEN FLOW DIVERSION IS NECESSARY. UNDER NO CIRCUMSTANCES SHALL SEWAGE BE PERMITTED TO ACCUMULATE IN OPEN TRENCHES OR ON THE SURFACE OF THE GROUND.



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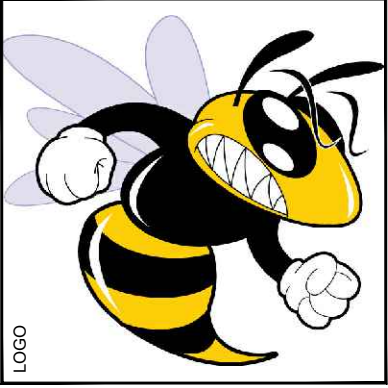


PROJECT

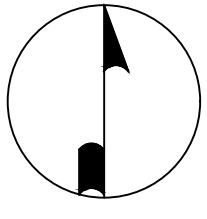
TOWN OF HUNTLAND

SEWER COLLECTION SYSTEM

3700-004



NORTH



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CAJ

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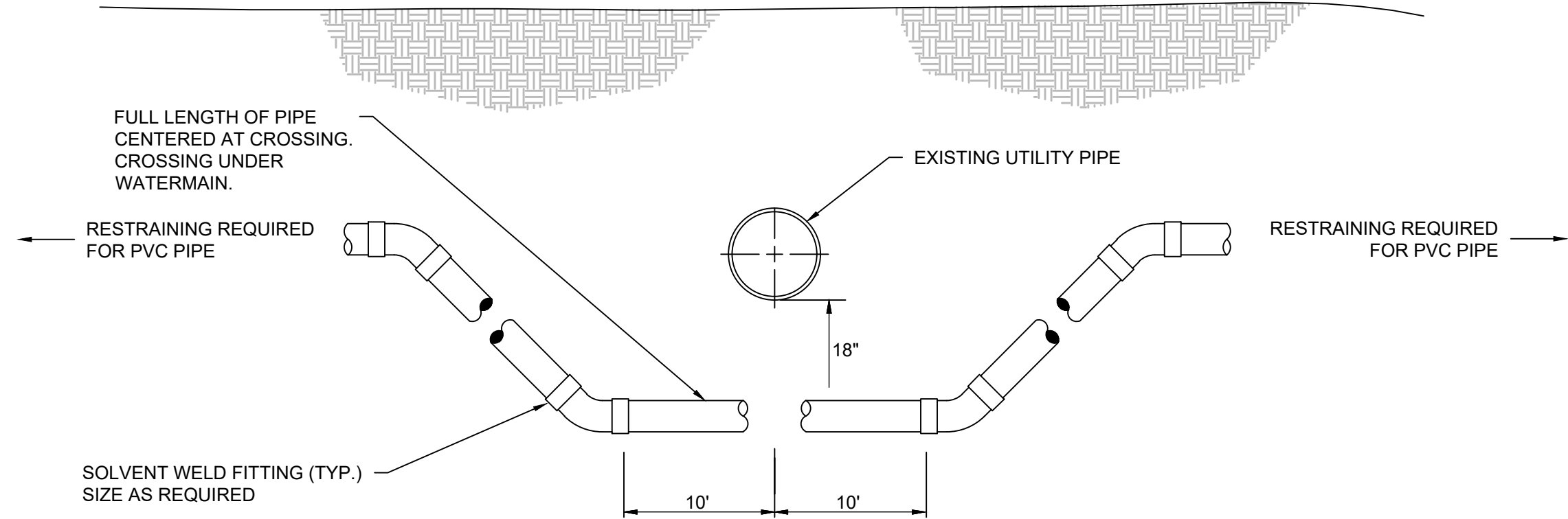
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TITLE

THOMPSON
APPALACHIAN
HARDWOOD SITE PLAN

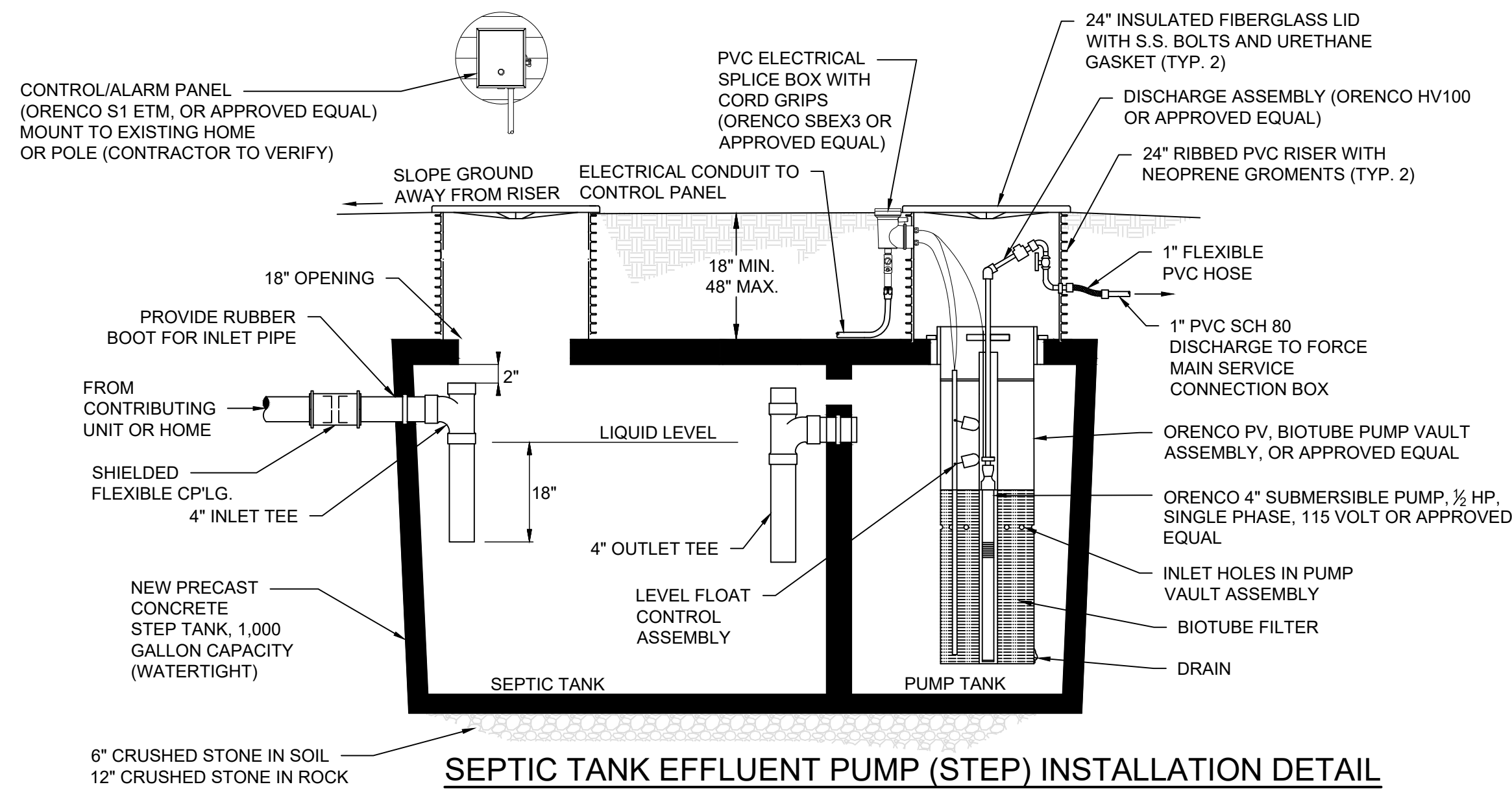
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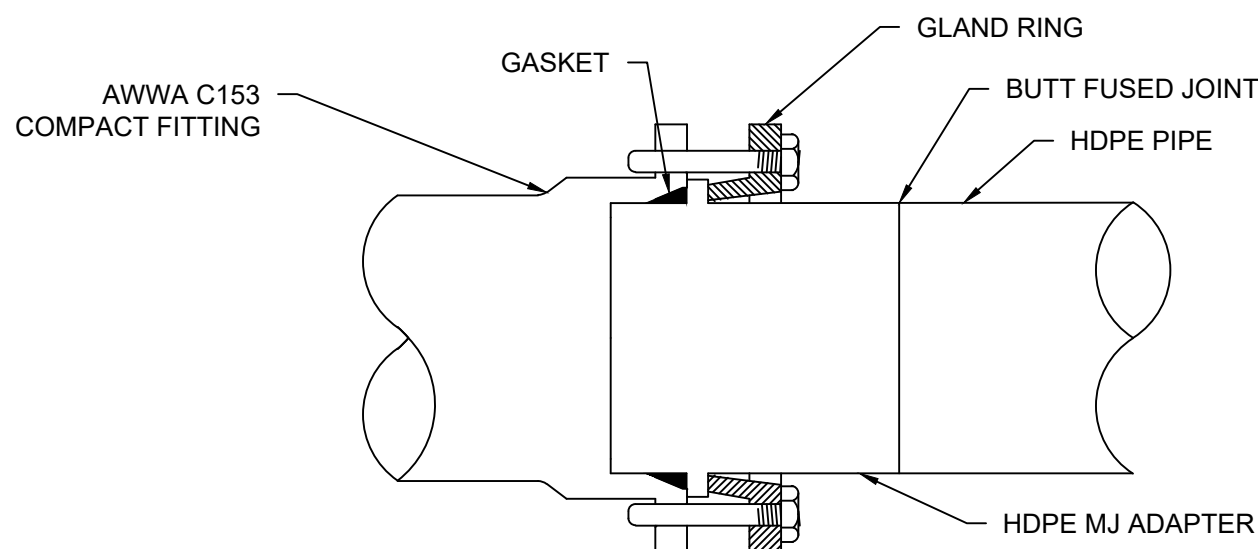
CONFLICTING UTILITY CROSSING DETAIL

- NTS
- NOTES:
- WHEREVER POSSIBLE DEFLECTION OF THE PIPE WILL BE USED TO AVOID EXISTING OBSTRUCTIONS. THIS CROSSING SHALL BE USED ONLY WHEN APPROVED BY ENGINEER.
 - WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, BOTH WATER AND SEWER SHALL BE CONSTRUCTED OF RESTRAINED JOINT PIPE AND SHALL BE PRESSURE TESTED TO ASSUME WATER TIGHTNESS.
 - HDD HDPE PIPE MAY BE USED IN THE ALTERNATIVE, FUSED JOINTS REQUIRED.



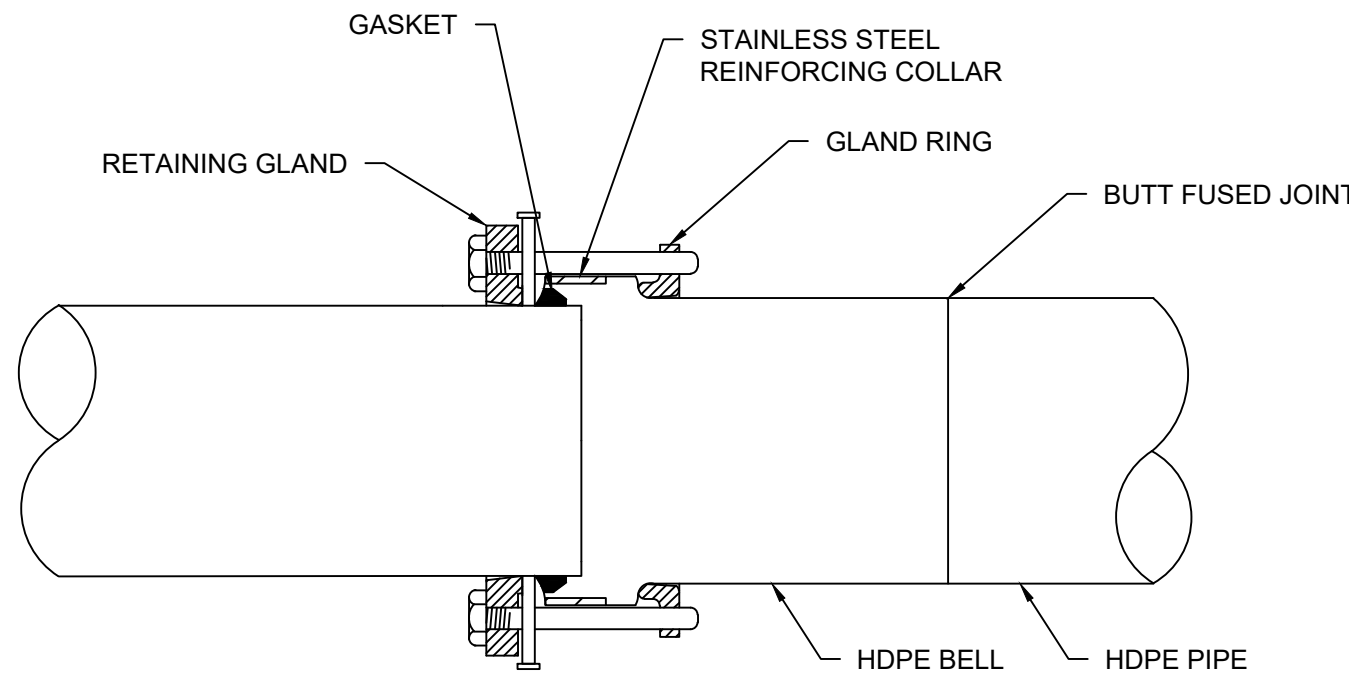
SEPTIC TANK EFFLUENT PUMP (STEP) INSTALLATION DETAIL

- NTS
- NOTES:
- CONTRACTOR IS RESPONSIBLE FOR LOCATING THE EXISTING SEPTIC TANK ON THE SUBJECT PROPERTY.
 - REMOVE AND DISPOSE OF THE EXISTING SEPTIC TANK.
 - NEW SEPTIC TANK, INSPECTION PORTS, ACCESS RISERS AND TANK CONNECTIONS SHALL BE WATERTIGHT. TANK SHALL BE FIELD TESTED FOR WATER TIGHTNESS.
 - SEPTIC TANKS WITHIN TRAFFIC LOADING CONDITIONS SHALL BE DESIGNED BY AN ENGINEER TO MEET THE ANTICIPATED LOADING. DEPTH OF BURIAL, TRAFFIC OR NON-TRAFFIC LOADING SHALL BE CONSIDERED.
 - PLUMBING BETWEEN THE STRUCTURE AND SEPTIC TANK AND SEPTIC TANK AND FORCE MAIN SERVICE CONNECTION BOX SHALL BE WATERTIGHT AND INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODES.
 - ALL ELECTRICAL WORK SHALL BE INSTALLED BY A LICENSED ELECTRICIAN AND INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODES.



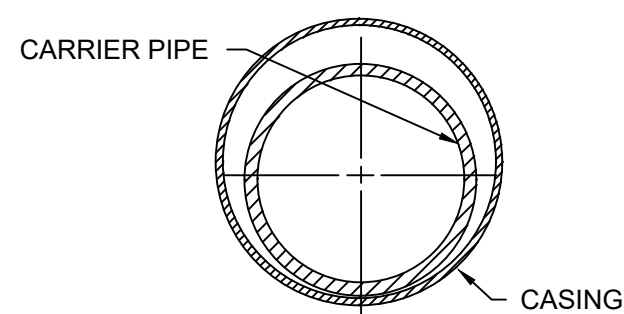
HDPE MECHANICAL JOINT ADAPTER CONNECTION DETAIL

- NTS
- NOTE:
- ALL HDPE MECHANICAL JOINTS REQUIRE SPLIT STYLE STAINLESS STEEL INSERT STIFFENERS IN HDPE PIPE END.



HDPE BELL JOINT ADAPTER CONNECTION DETAIL

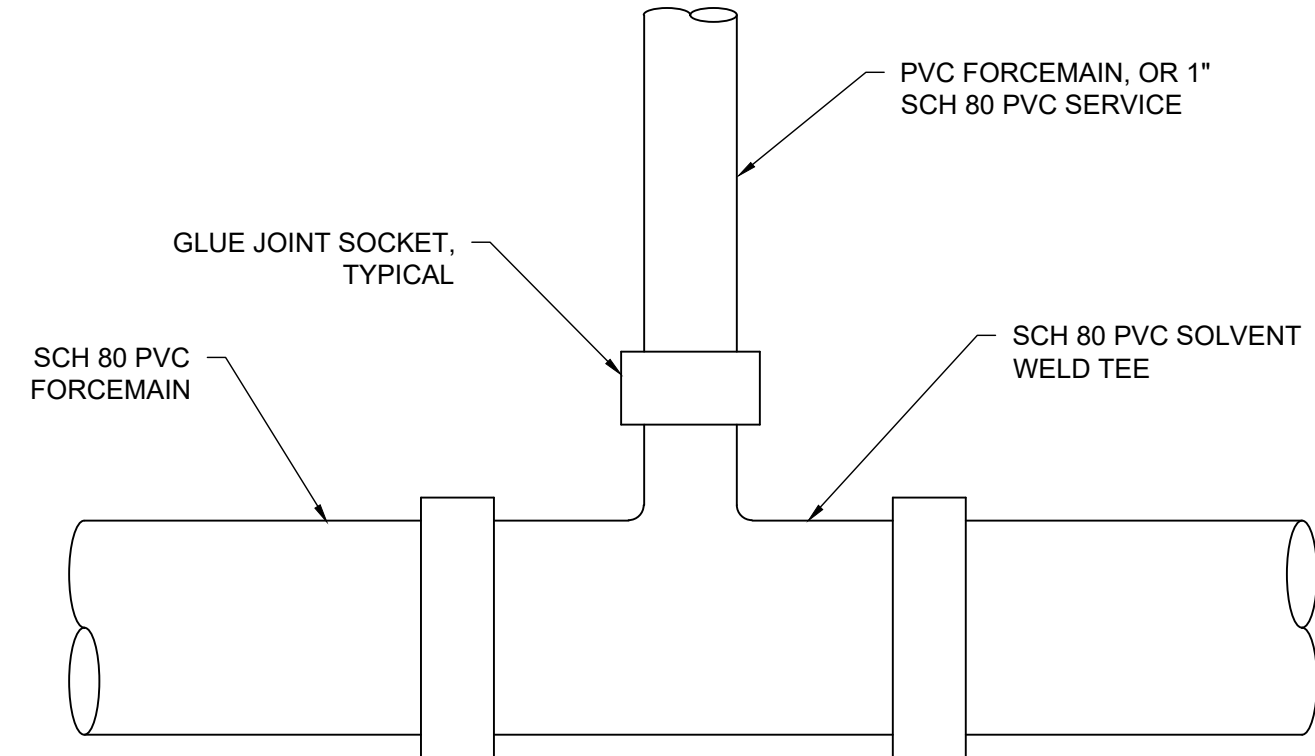
- NTS
- HDPE TO PVC/DIP TRANSITION:
THE PVC PIPE SIDE SHALL BE RESTRAINED 35 FT (MIN) AWAY FROM MATERIAL TRANSITION.



TDOT ROAD CROSSING DETAIL

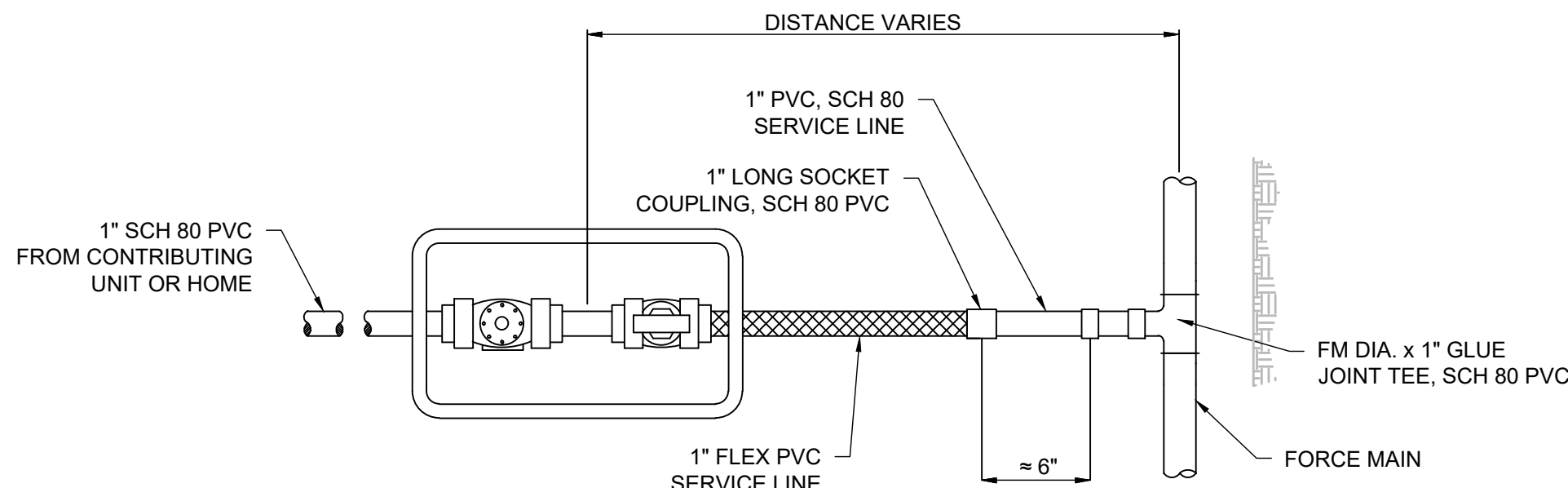
- NTS
- NOTES:
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TENNESSEE DEPT OF TRANSPORTATION RULES AND REGULATIONS FOR ACCOMMODATING UTILITIES WITHIN HIGHWAY RIGHTS OF WAY LATEST REVISION.
 - LOCATE EXISTING UTILITIES BEFORE CONSTRUCTION.
 - THE CASING PIPE SHALL BE HDPE, IPS DR17.
 - THE CARRIER PIPE SHALL BE HDPE, IPS DR11.

CARRIER PIPE NORMAL SIZE (INCHES)	CASING PIPE NOMINAL DIAMETER (INCHES)
2	4
3	6
4	6
6	8
8	10

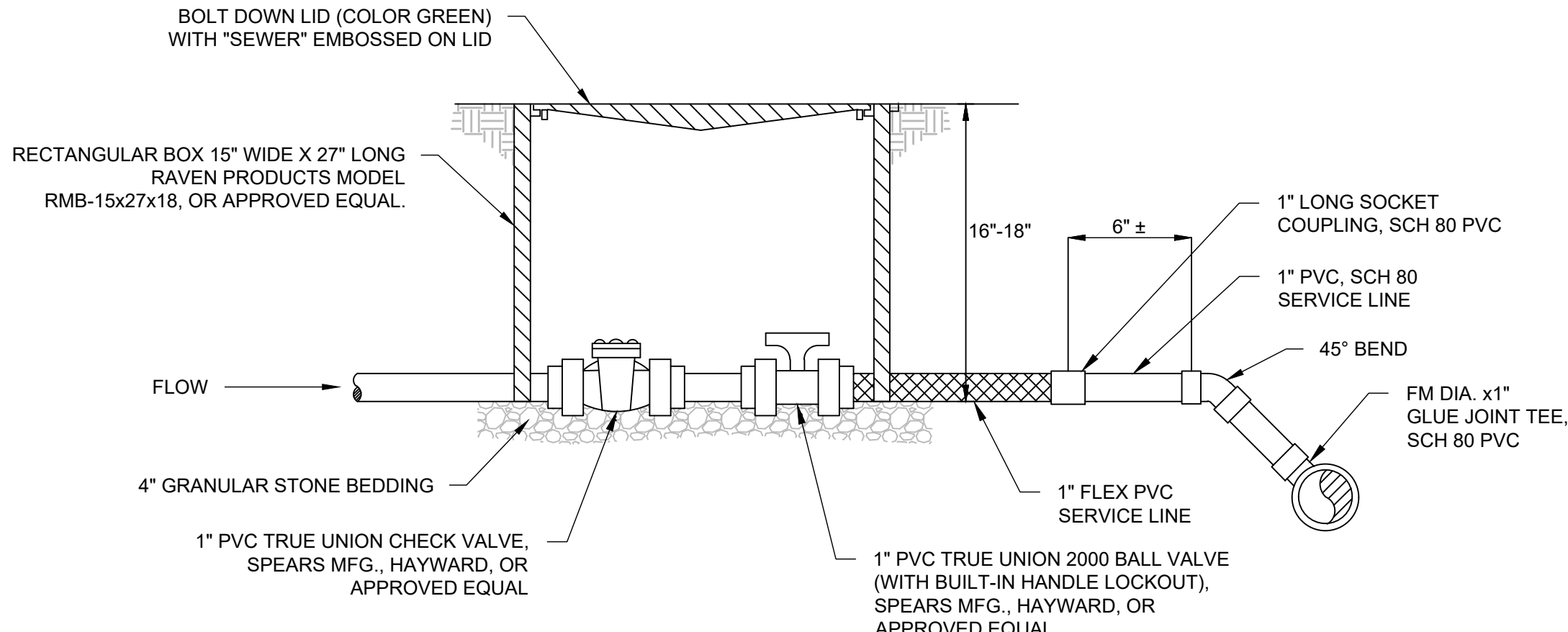


TYPICAL SCH 80 PVC SOLVENT WELD FITTING

NTS



PLAN VIEW

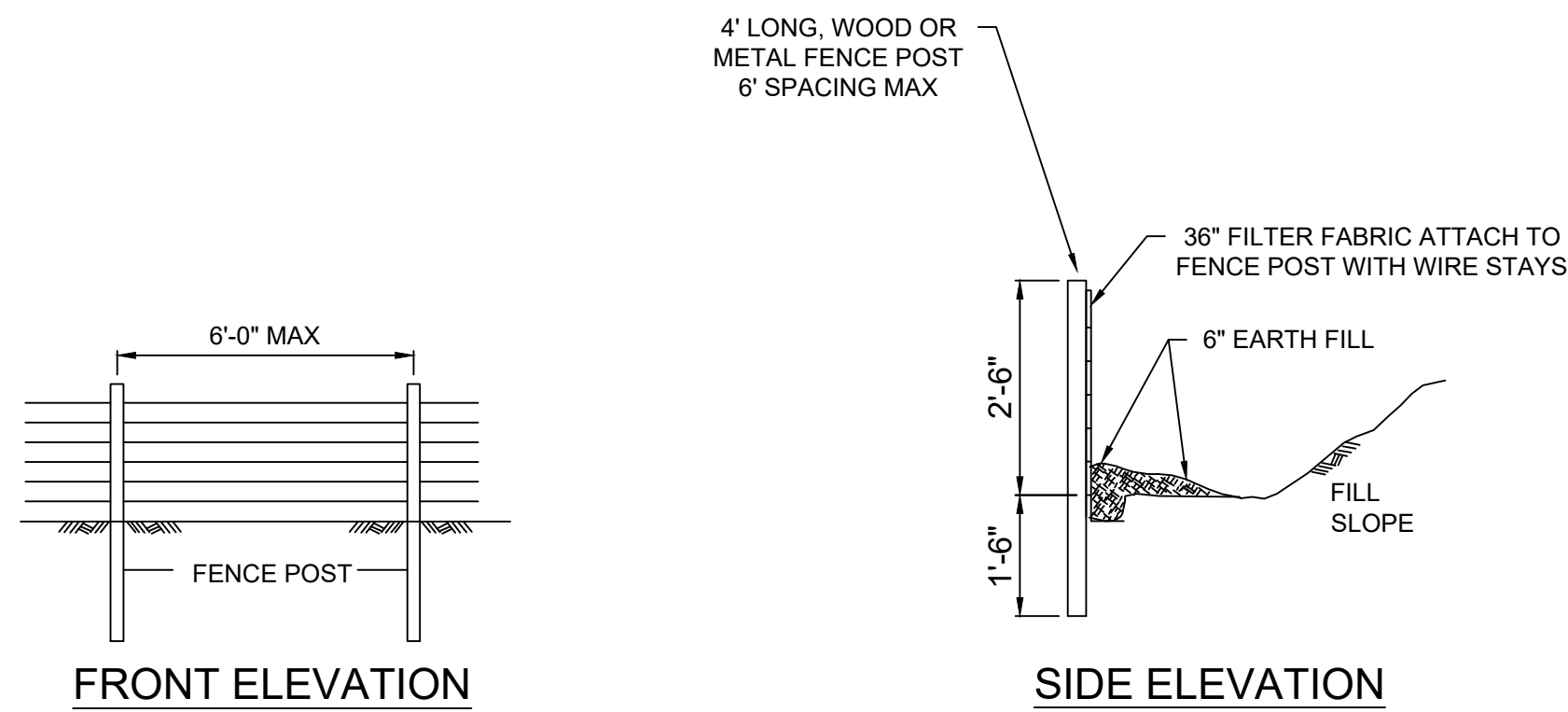


SECTION VIEW

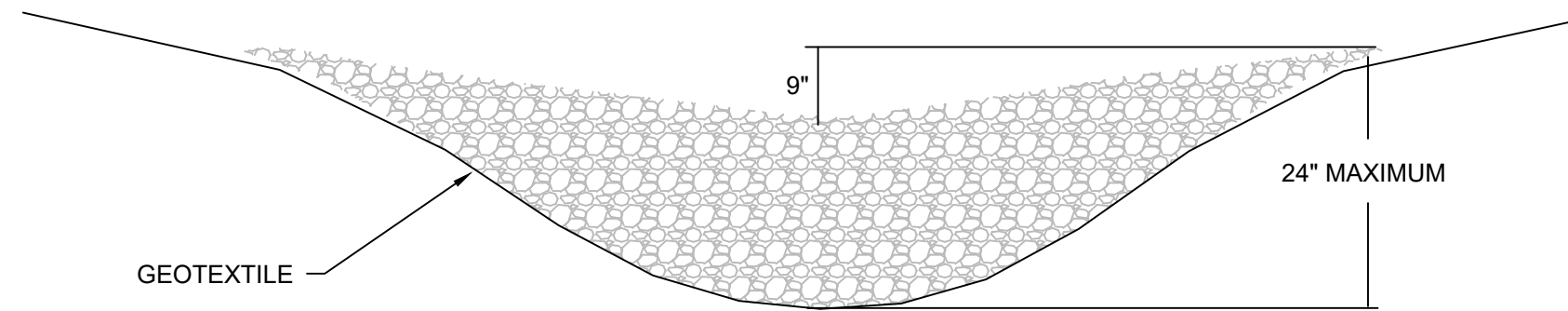
TYPICAL SERVICE CONNECTION BOX DETAIL

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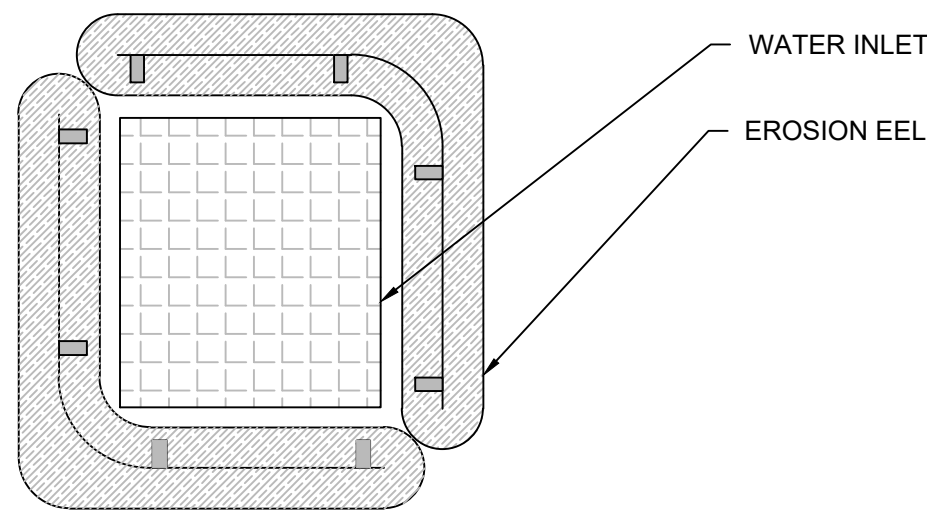
- NOTES:
- LOCATE SERVICES AT EXTENTS OF RIGHT-OF-WAY UNLESS NOTED OTHERWISE.
 - ALTERNATIVELY, HDPE FITTINGS & SERVICE LINE MAY BE USED. USE COMPRESSION FITTINGS AND VALVES.



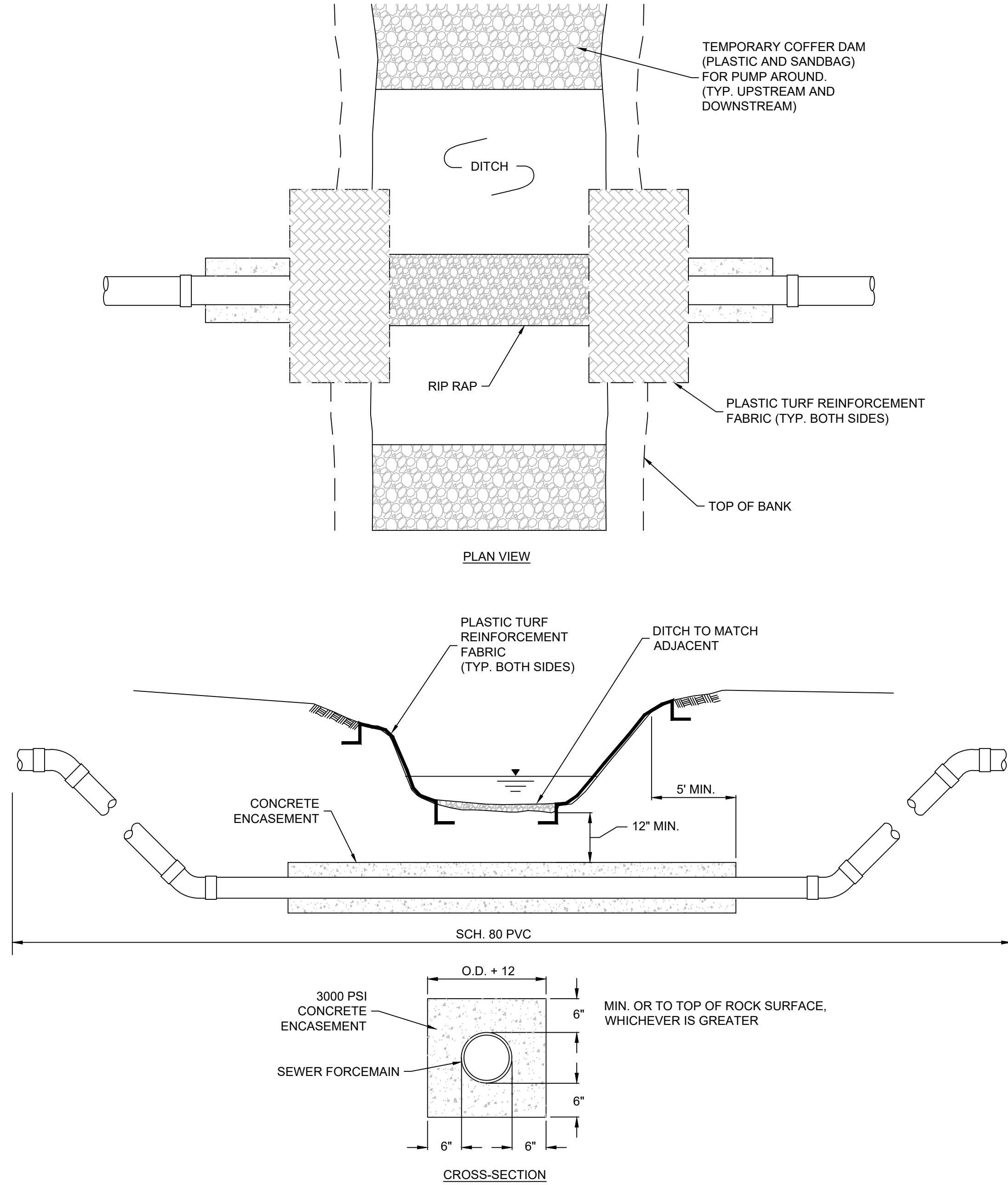
TYPICAL SILT FENCE DETAIL
NTS



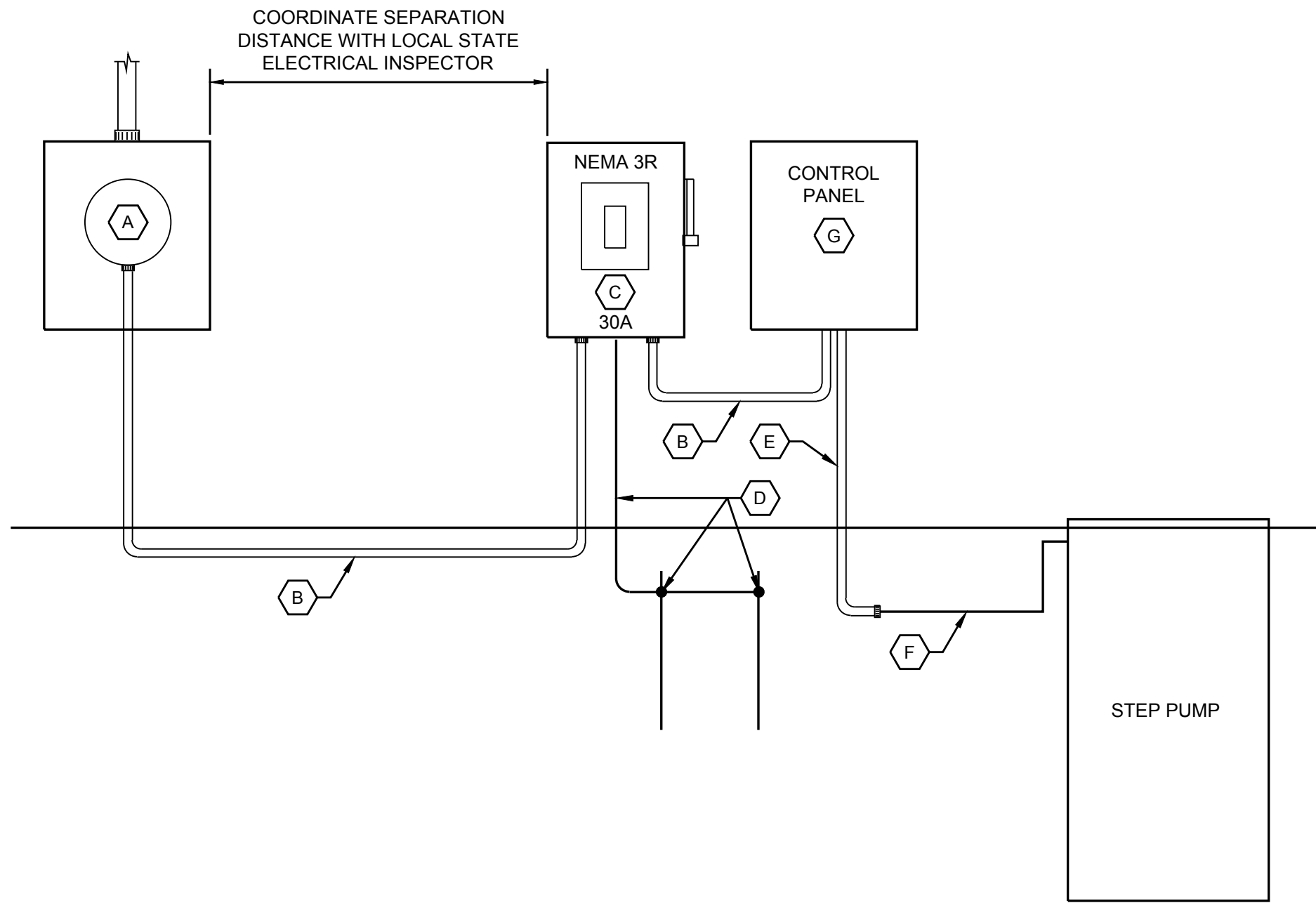
CHECK DAM DETAIL
NTS



EROSION EEL DETAIL
NTS



TYPICAL CREEK CROSSING AND CONCRETE ENCASEMENT DETAIL
NTS



DETAIL

TYPICAL SIMPLEX STEP PUMP
FEEDER DIAGRAM

DRAWING NOTES:

- A** EXISTING METER BASE LOCATED ON RESIDENCE EXTERIOR. PROVIDE AND INSTALL EKSTROM EK SERIES METER EXTENDER ADAPTER ON EXISTING METER SOCKET. COORDINATE METER BASE JAW CONFIGURATION IN FIELD. THE OWNER WILL PROVIDE THE BREAKER CONNECTION, CONDUIT AND CABLING, AND 30A DISCONNECT FOR THE HUNTLAND SCHOOL AND THOMPSON APPALACHIAN HARDWOOD FACILITIES. CONTRACTOR IS RESPONSIBLE FOR MOUNTING CONTROL PANEL G AND CONNECTION TO THE DISCONNECT.
- B** 1/2" C, 3#10, #10 GND. COORDINATE ROUTING WITH TANK LOCATION ROUTE UNDERGROUND AT 24" BELOW GRADE IF CONDUIT LENGTH IS GREATER THAN 6'.
- C** FUSED DISCONNECT SHALL BE SERVICE ENTRANCE RATED WITH DUAL ELEMENT TIME DELAY FUSES. ENCLOSURE SHALL BE LOCKABLE. LOCATION OF SERVICE DISCONNECT SHALL BE INSTALLED SEPARATELY FROM THE LOCATION OF THE EXISTING SERVICE METER BASE. DISCONNECT CANNOT BE INSTALLED DIRECTLY ADJACENT TO THE EXISTING METER BASE. DISCONNECT MAY BE MOUNTED ON 4"x4"x6" PRESSURE TREATED WOOD POST ALONG WITH THE PUMP STATION CONTROL PANEL.
- D** SOLID BARE #6 CU GROUND CONDUCTOR TO 3/4"x10' COPPERCLAD GROUND ROD. USE BURNDY HIGH GROUND COMPRESSION FITTINGS.
- E** 1 1/4" C WITH DIRECT BURIAL PUMP CABLE. EXTEND CONDUIT TO 24" BELOW GRADE WITH NYLON BUSHING ON CONDUIT END.
- F** PUMP CONTROL CABLE. DIRECT BURY MINIMUM 24" BELOW GRADE. REPAIR ALL EXISTING DISTURBED SURFACES TO MATCH EXISTING. COORDINATE WITH RESIDENCE OWNER. PROVIDE 2" SCHEDULE 80 CONDUIT SLEEVES WHERE DRIVES OR PARKING AREAS.
- G** PUMP CONTROL PANEL INSTALLED ON BUILDING EXTERIOR. MOUNT CONTROL PANEL WITHIN SIGHT OF PUMP STATION. COORDINATE MOUNTING AND LOCATION WITH ENGINEER.

GENERAL NOTES:

1. ALL DAMAGES AND PENETRATIONS OF EXISTING STRUCTURES AND/OR EQUIPMENT SHALL BE IMMEDIATELY REPLACED, REPAIRED AND/OR PROPERLY PATCHED.
2. EXTREME CARE SHALL BE EXERCISED SO AS NOT TO DISTURB EXISTING EQUIPMENT AND PROPERTY BEYOND THE NECESSARY REQUIREMENTS AND SCOPE OF WORK.
3. ACCESS AND WORKING HOURS SHALL BE STRICTLY COORDINATE WITH EACH OWNER.
4. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS RELATED TO SCOPE OF WORK. CONFIRM CONFIGURATION OF EXISTING METER BASES AND DESIGNED CONNECTIONS. MAKE NECESSARY ADJUSTMENTS AND INCLUDE ALLOWANCES TO FURNISH A FULLY OPERATING GRINDER PUMP SYSTEM.

ELECTRICAL SPECIFICATIONS

1. THE ELECTRICAL CONTRACT WORK SHALL INCLUDE ALL ELECTRICAL MATERIALS AND INSTALLATION TO RESULT IN A BUILDING READY AND SUITABLE FOR USE AS INTENDED BY OWNER. THE CONTRACTOR SHALL REFER TO ALL PLANS INCLUDING THE SITE, ARCHITECTURAL, AND MECHANICAL PLANS.
- 1.2 ALL ELECTRICAL INSTALLATIONS SHALL BE MADE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ITS SUPPLEMENTS IN FORCE AT THE TIME OF BID OPENING, AND ALL MATERIALS EMPLOYED SHALL BE UL LISTED AND APPROVED AND BEAR THE UL OFFICIAL LABELS WHERE SUCH LABELING IS CUSTOMARY. IN THE EVENT THAT LOCAL CODES ARE MORE RIGID THAN THE NATIONAL CODE, BOTH CODES SHALL THEN BE CONSIDERED AS JOINTLY GOVERNING AND THE REQUIREMENTS OF THE MOST RIGID SHALL THEN PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER SELECTION AND APPLICATION OF MATERIALS AND METHODS OF THEIR INSTALLATION. PRINCIPAL FEATURES ARE AS FOLLOWS:
- A. CONNECTIONS TO NEW STEP PUMP.
- B. WIRING DEVICES, OUTLETS, AND ETC.
- 1.3 POWER SERVICE
- A. EXISTING POWER SERVICE IS 120/240-VOLTS, 1-PHASE, 3-WIRE. CONTRACTOR SHALL CONSULT WITH THE LOCAL POWER UTILITY AND COMPLY WITH ALL THEIR INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL FEES AND CONSTRUCTION CONTRIBUTIONS REQUIRED BY THE POWER COMPANIES. COORDINATE METER EXTENSIONS
- 1.4 DISTRIBUTION EQUIPMENT
- A. DISTRIBUTION EQUIPMENT AND BRANCH CIRCUIT PANELBOARDS SHALL BE MOLDED CASE CIRCUIT BREAKER EQUIPMENT HAVING THE NECESSARY INTERRUPTING RATINGS BUT NOT LESS THAN 10,000 AIC. GROUND FAULT SENSING AND AUTOMATIC INTERRUPTING SHALL BE FURNISHED ON ANY OUTDOOR POWER CIRCUITS AND AS OTHERWISE REQUIRED. EQUIPMENT SHALL BE SQUARE-D OR EQUAL.
- 1.5 GROUNDING
- A. PROVIDE CODE GROUNDING FOR ANY SYSTEM ADDITIONS.
- 1.6 CONNECTION OF EQUIPMENT
- A. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL MECHANICAL EQUIPMENT FURNISHED BY OTHER TRADES INCLUDING PUMP STATION EQUIPMENT. CONNECTION SHALL BE EXTENDED TO ALL ELECTRICALLY OPERATED EQUIPMENT. WHERE REQUIRED THE ELECTRICAL CONTRACTOR SHALL FURNISH DISCONNECT SWITCHES. STARTER HEATER ELEMENTS AND OVER CURRENT PROTECTION SHALL BE CHECKED FOR PROPER APPLICATION TO THE DEVICE BEING SERVED. DISCONNECTS AND SWITCHES SHALL BE SQUARE-D COMPANY OR EQUAL. ALL DISCONNECTS SHALL BE HEAVY DUTY RATED.
- 1.7 TYPES OF WIRING AND RACEWAYS
- A. THE TYPES AND GRADES OF MATERIALS TO BE EMPLOYED IN THE WIRING SYSTEMS ARE SUBJECT TO BUILDING STRUCTURAL CONDITIONS AND THE GOVERNING CODES. THE WIRING SHALL BE RIGID GALVANIZED CONDUIT WHERE ABOVE GRADE. ALL CONDUCTORS SHALL BE MTW COPPER. MINIMUM SIZE CONDUIT 1/2".
- B. UNLESS PARTICULARLY STATED OTHERWISE, THE RACEWAY SHALL BE RUN CONCEALED.
- C. ALL CONDUITS INSTALLED UNDERGROUND, IN CONCRETE SLABS, OR EXTERIOR OF BUILDINGS, MAY BE PLASTIC "PVC" EXCEPT WHEN EXPOSED. THEY SHALL BE SUITABLE GALVANIZED STEEL.
- D. WIRING SYSTEMS WITH OUTLET DEVICES AND BOXES, SHALL BE GROUNDED AS REQUIRED BY THE GOVERNING CODES.

1.8 MATERIALS

- A. BASIC MATERIALS AND DEVICES REQUIRED IN THE WIRING SYSTEMS SHALL BE UL APPROVED STANDARDS. IN THE EVENT THAT UL STANDARD IS REVISED, SUPPLEMENTED, OR MODIFIED, ETC., THE LATEST REQUIREMENTS SHALL THEN GOVERN.
- B. THE CONTRACTOR SHALL SUBMIT A LIST OF MATERIALS PROPOSED TO BE USED IN THE CONSTRUCTION OR PROVIDE SAMPLES, ETC., FULLY ESTABLISHING THE TYPE, GRADE, AND QUALITY OF EACH DEVICE OR ITEM OF MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ONLY SUCH DEVICES AND MATERIALS AS OBVIOUSLY MEET GOVERNING REQUIREMENTS. ITEMS TO BE SUBMITTED INCLUDE CNOUIT, WIRE, DISCONNECTS, METER BASE EXTENSIONS AND OTHER MAJOR SYSTEM COMPONENTS.

1.9 JUNCTION BOXES AND FITTINGS

- A. ALL EXTERIOR JUNCTION BOXES SHALL BE FS TYPE WEATHERPROOF.
- B. ALL CONDUIT FITTINGS SHALL BE RAINTIGHT.

1.10 IDENTIFICATION

- A. PROVIDE LABELING OF ALL CONTROL AND POWER WIRING.

1.11 WORK QUALITY

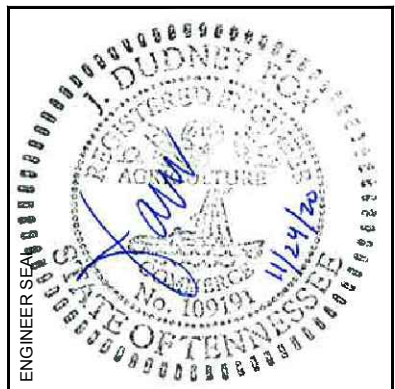
- A. ALL ELECTRICAL WORK SHALL BE PERFORMED IN A WORKMENLIKE AND PROFESSIONAL MANNER BY WORKMEN SKILLED IN THE TRADE REQUIRED. THE WORK SHALL RESULT IN A FINISHED AND OPERATING SYSTEM.

1.12 GUARANTEE

- A. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK TO BE FREE OF GROUNDS AND SHORT CIRCUITS AND SHALL REPAIR OR REPLACE ALL DEFECTIVE WORK WITHIN A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY THE OWNER.

1.13 CODES, PERMITS, FEES

- A. THE ELECTRICAL CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND CONFORMING TO ALL LOCAL, STATE AND NATIONAL GOVERNING CODES. NOTE: THE PROJECT COMES UNDER STATE OF TENNESSEE ELECTRICAL INSPECTOR.

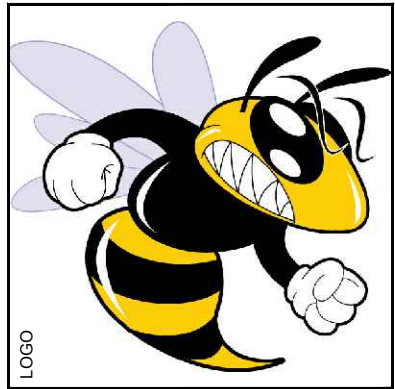


PROJECT

TOWN OF HUNTLAND

SEWER COLLECTION SYSTEM

3700-004



NORTH

DRAWN BY
CAJ

APPROVED BY
JDF

DATE	ISSUE
2/26/21	IFB

TITLE

ELECTRICAL
DETAILS &
SPECIFICATIONS

DRAWING NO.

E1.0